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May 1980

$1.25

Sunset

The Magazine of Western Living

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Sunset Readers Report

Tomato Winners and Losers P. 94

Lightweight Tents P. 120

Which Soup for Breakfast? P. 110

Window Seating P. 118

05
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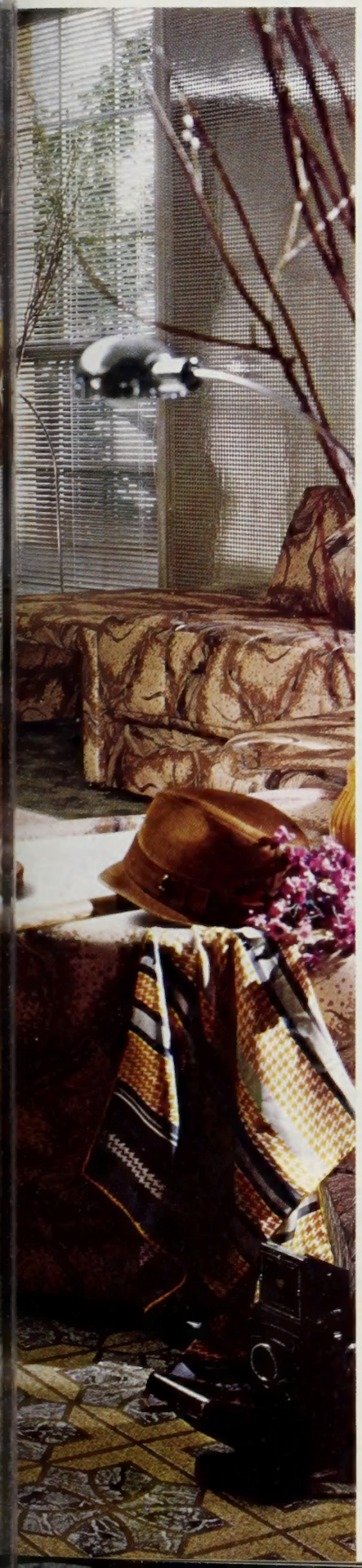
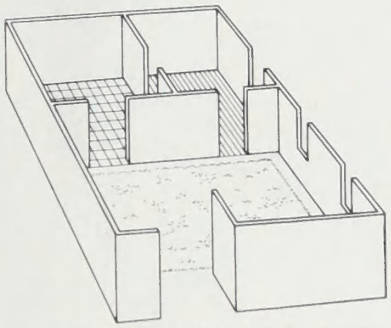
Make Room for Great Rooms

with Armstrong Solarian® Floors

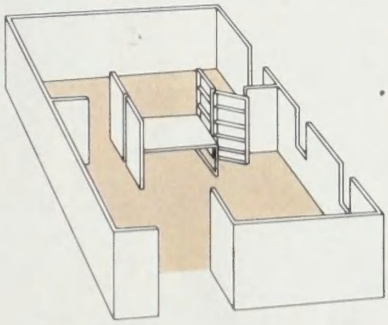


How to transform three ordinary rooms into The Great Room

It was a typical floor plan of the 1950s and '60s...a small kitchen, an adjoining dining room, and a living room. But now, with a minimum of structural change, the three ordinary rooms have merged into one...The Great Room. It's a room whose greatness lies in the use of its space...not the size of it. A multipurpose room for the way we are...the way we live. Less structured. More informal. The Great Room... created by removing two walls and making a great space for contemporary living. And the great floor that ties it all together... Armstrong Solarian Supreme.



Yesterday's floor plan.



Today's Great Room.

Great Rooms deserve Great Floors...like the new Armstrong Solarian Supreme

There's never been an Armstrong floor this luxurious. As beautiful in the family living area as it is practical in the kitchen. It's a totally new kind of floor...and you'll see the difference at a glance.

A beautiful new precision of design achieves its uncommonly elegant styling...gives its colors and patterns unusual richness, realism, sophistication. Solid inlaid construction provides durability, toughness, and excellent resistance to indentation. For a long-lasting built-in shine, it has Armstrong's extra-durable Mirabond® no-wax surface...keeps its lustrous "like-new" look without waxing far longer than ordinary vinyl no-wax floors.

About $580

Manufacturer's current estimated retail price for an average 12'x15' room. Material only. Installation extra. Prices may vary by retailer.

Norwalk Marble Solarian Supreme, pattern 88023

Certain floor designs copyrighted by Armstrong

Great Rooms Deserve Great Floors...like Armstrong Designer Solarian

Savona Designer Solarian, pattern 8942
Certain floor designs copyrighted by Armstron

For gracious living...related areas merge into a total environment encompassing the kitchen, dining, and family room. And the great floor that ties The Great Room together...Armstrong Designer Solarian, the only no-wax floor with the richness of Inlaid Color™ It's Armstrong's exclusive process that builds up the pattern and color with thousands of varicolored vinyl granules, creating a floor with remarkable richness of color and beautiful design realism.

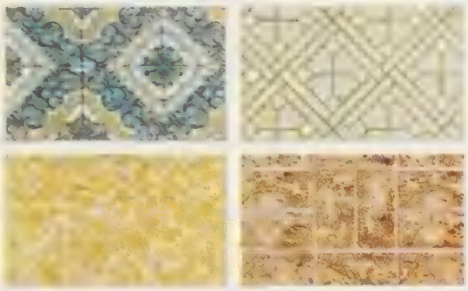
About $380

Manufacturer's current estimated reta price for an average 12'x15' room. Material only. Installation extra. Prices may vary by retailer

Great Rooms Deserve Great Floors...like Armstrong Premier Sundial™ Solarian

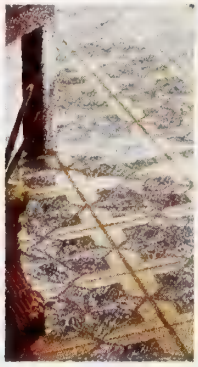
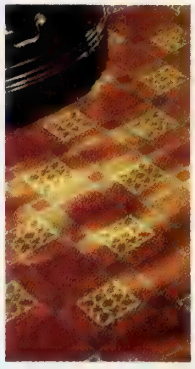
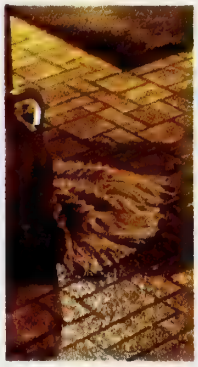
Baytown Premier Sundial Solarian, pattern 66853

This pleasant Great Room blends a farm kitchen with an informal living/family room...creating a warm, relaxed atmosphere. The great floor that helps unify the space is designed for comfort and beauty. Armstrong Premier Sundial Solarian...a thickly cushioned no-wax floor. And with a remarkably flexible construction that allows its installation directly over most existing floors as easily as carpet... eliminating seams in most rooms with the 12′ SeamSaver™ width.



About $340 Manufacturer's current estimated retail price for an average 12′x15′ room. Material only. Installation extra. Prices may vary by retailer

Armstrong Solarian... the Great Choice in Fine No-Wax Floors.

	Solarian Supreme:	Designer Solarian:	Premier Sundial Solarian:	Studio Solarian:	Sundial Solarian:
No-Wax Mirabond Surface Extra-durable, protects the color and pattern and shines without waxing far longer than ordinary vinyl no-wax floors.*	√	√	√	√	√
Inlaid Vinyl Construction A unique solid inner layer of thousands of vinyl chips or granules, provides extra toughness, heft, and resistance to damage	√	√		√	
Cushioning Provides an extra measure of quiet, comfort underfoot, and warmth to the touch			(extra-thick)		√
Colors and Designs Selection of colors and patterns available in line	13 colors	55 colors	23 colors	10 colors	35 colors
Price Manufacturer's current estimated retail price, 12'x15' room, material only, installation extra. Prices may vary by retailer	$580	$380	$340	$340**	$220**

*If a reduction in gloss should occur in heavy-traffic areas, Armstrong Suncoat™ can be applied to help maintain the sh

**BUY NOW AND SAVE!

Armstrong Studio Solarian and Sundial Solarian are on sale now! Save $30 to $50 on a 12′ x 15′ room…now through May 31. at participating retailers.

Free! More great ideas on great floors from Armstrong

Please send me your free 24-page Armstrong shopper's guide, "How to Buy Resilient Flooring," plus your brochure illustrating all the great Solarian no-wax floors from Armstrong.

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Street

City State Zip

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See All the Great Armstrong Solarian Floors Now at These Great Armstrong Retailers. Save $30-$50* on Studio and Sundial Solarian!

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water

OR CARPETS
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is May 11

Give Her
A BOUQUET
OF FRESH IDEAS
that last all year

Give
Sunset
with love

This Mother's Day, give her a little help in the kitchen, and the garden, with crafts and remodeling, and planning vacations. Give her some inspiration! Give her Sunset.

IT COULDN'T BE EASIER TO PLEASE HER.

Take two minutes now to send us your gift order. We'll send her a hand signed card, with your best wishes, right away.

(If she already subscribes, terrific! You know she loves it; we'll extend her subscription for 12 more issues.)

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Just send us the names and addresses for your Mother's Day gifts *today*. Tell us how you want your card signed, enclose payment, and mail to: Mother's Day, Sunset Magazine, Willow & Middlefield Rds, Menlo Park, CA 94025.

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Sunset* The Magazine of Western Living*
THE PACIFIC MONTHLY *

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The Cover Story

One of the triumphs of tomato growing in the West is on our cover: luscious Better Boy, grown by Nick and Claudia Sharko of Palo Alto, California. Their daughter, Carolee Reeder, shows off this winner for photographer Darrow M. Watt. Sunset readers rate tomato winners and losers in our report on page 94

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May travel . . . in and beyond the West

Celebrating with the Greeks . . . from San Jose to Denver

Going to a Greek festival is something like going to a family gathering. It's a time when the Greek community invites you to share their music, folk dances, and native foods during a celebration that usually lasts all weekend.

The food is often the highlight, with everything from *dolmathes* (stuffed grape leaves) to *baklava* (honeyed pastry). Watching them made is part of the fun.

Here are three weekend festivals coming up in the Bay Area and two special events in Denver and Reno.

Marin Grecian Festival, May 24 and 25, at Marin Civic Center, N. San Pedro Road, San Rafael. Held partly outdoors, this big festival offers free Greek dancing lessons, cooking demonstrations, films of Greece, and dozens of food booths. Hours are 12:30 to 10; admission is $2.25 adults, $1.25 children under 12. For details, call (415) 479-4493.

Oakland Greek Festival, May 17 and 18, at Oakland Auditorium, 10 10th Street. One of the largest Greek festivals in the West, it features continuous live music and dancing, cooking demonstrations, raffles, craft and food booths. Hours are noon to midnight; admission is $2.50 adults, $1.50 children under 18 and seniors. Free shuttle buses serve the Oakland Lake Merritt BART station. For details, call (415) 531-3400.

San Jose Grecian Cultural and Food Festival, May 31 and June 1, St. Nicholas Greek Orthodox Church, 1260 Davis Street, San Jose. A neighborhood festival, it has several food and crafts booths, a *kafeneion* with coffee and pastries, a *bouzouki* band, dancing groups, and tours of the church. Hours are 10 to midnight Saturday, noon to 10 Sunday; admission is $1, free for children under 12. For details, call (408) 246-2770.

Reno offers a Greek night at the fairgrounds (1350 N. Wells Avenue) from 6

GREGG MANGUSO

Handkerchief dance, *performed by women in island costume, is part of all-day dance activity at Oakland festival. In Marin (right), you'll see the ouzo dance, a test of balance and strength*

Give in to pastries *or learn how to cook them, such as sweet loukoumades or cheese-filled, turnover-shaped tiropetes at many festivals*

MICHAEL THOMPSON

On the steps *of the Oregon Capitol, Secretary of Transportation Goldschmidt answers our questions*

How is Portland's transit mall doing?

In 1978, when *Sunset* reported the completion of the Portland Transit Mall, it was one of the West's first and as yet untried. This year we went back for a long second look.

How well does the bus system serve commuters and other Portland residents? How can it help Portland visitors see the city? How has the mall changed the downtown?

Assistant editor Lora Finnegan rode the buses and talked with Tri-Met users, city planners, and officials, including the mayor of Portland when the mall was built, Neil Goldschmidt.

"Compare the early results with the expectations," says Finnegan, "and the project gets a thumbs up." As to how it works right now and what it portends for the future, see our report on page 112.

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Change of Address Form on page 265

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to 10 P.M. on May 24, featuring folk dancers and a dinner (admission to be set).

And in Denver, there's the outdoor Greek Marketplace with food booths June 27 to 29 at the Hellenic Community Center, 4610 E. Alameda Avenue. Hours are 10 to noon; free.

Along the Silverado Trail with Robert Louis Stevenson

In the summer of 1880, a little-known author visited Calistoga with his bride. They stayed in a small bunkhouse by the ruins of the Silverado Mine, where he wrote for 5 hours each day. Out of that summer's work came the *Silverado Squatters* and later the famous *Treasure Island*, both of which drew heavily on the area for settings and characters.

To celebrate the centennial of Robert Louis Stevenson's honeymoon stay in the Napa Valley, some 70 miles north of San Francisco, visitors are offered museum exhibits and a film, plus a free guidebook to the author's haunts. It's also a good time to visit Robert Louis Stevenson State Park.

The Silverado Museum, in St. Helena at 1490 Library Lane, contains some 7,000 artifacts relating to the Scottish writer; you'll find letters, manuscripts, photographs, and first editions of his works, as well as the writing desk he used during his final years in Samoa. The museum is free and open from noon to 4 daily except Monday.

A free self-guiding tour pamphlet tracing Robert Louis Stevenson's sojourn in the Napa Valley is due out this month; it will be available at the museum. And on May 15 at 8 P.M., there'll be a free showing of *Silverado Episode*, a documentary film about Stevenson and the museum, at the St. Helena Elementary School at 1325 Adams Street.

Perhaps the best way to get a feel for the author and what inspired him here is to visit Robert Louis Stevenson State Park on State Highway 29 about 5 miles north of Calistoga. There you can hike up a 1-mile self-guided nature trail from the parking lot to the site of the young author's honeymoon cabin and the Silverado Mine (long closed). Or continue 4 miles to the top of Mount St. Helena. From its 4,343-foot elevation, you can see Mount Shasta, Mount Lassen, and San Francisco Bay; the last leg of the climb is fairly steep. The 3,400-acre park has a few picnic tables but no water or rest rooms; it's free, open dawn to dusk.

Foreign film festival in Denver rolls May 1 to 10

Until recently, foreign film fans in Denver have not had much to see—even the major film imports often bypassed the city. But this month, a 10-day festival will feature 80 films—some from West-

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GREGG MANCUSO

Bagong Diwa *group demonstrates precise timing and intricate footwork of Philippi dance. They'll perfor at San Francisco festival this month*

ern filmmakers, but most from foreign countries.

The Denver International Film Festival runs from May 1 to 10 and includes some 30 feature-length films, plus documentaries and animated films. At 2 P.M. on May 4, a free critics' choice seminar in the Denver Center Cinema will discuss the best films of the '70s.

The movies will be shown at three locations: the Ogden Theater at 935 E. Colfax Avenue, the Aladdin Theater at 2010 E. Colfax Avenue, and the Denver Center Cinema at 1245 Champa Street. Showings will be at 7 and 9:30 weeknights and from 3 to midnight weekends. Tickets are $4 (except $5 opening and closing nights). For program information, call (303) 629-8343.

Ethnic dance festival in San Francisc

San Francisco is blessed with an unusu variety of ethnic dance companies, ran ing from Andalusian gypsy to Baline to Russian Georgian. This year the ci Hotel Tax Fund is sponsoring its thi festival to showcase the best of the groups in four performances.

Each show features four groups, you'll see several dance styles. Adm sion to each show is $1. Performanc are May 10 at 8 P.M. (Chinese Cultu Center, 750 Kearny Street); May 11 at P.M. (Bayview Opera House Theate 4705 Third Street); May 17 at 8 P.M (Victoria Theater, 2961 16th Street); ar May 18 at 2 P.M. (Herbst Theater, Va Ness Avenue and McAllister Street). F more information, call (415) 558-2541.

For travel planners, a May check list

Germany by bicycle. There are July, August, and September departures for two-week bicycle tours in Germany, Holland, and Austria. For example, from Heidelberg you'll cycle through tiny villages to medieval Rothenburg and on to Munich. You'll continue past the lakes of Bavaria to Wasserburg and on to Salzburg, where the tour ends. The cost is $945 with air fare additional. For details on other European bike tours, write to Gerhard's Bicycle Odysseys, 1137 S.W. Yamhill St., Portland 97205.

Explore Fiji. July 13 and August 3 are the departure dates for three-week excursions to the outer islands of Fiji. You will stay in small villages, where you can get to know the inhabitants, learn local handicraft techniques, eat native food, participate in ceremonies and dance festivities, fish, swim, snorkel, and just relax. The $2,697 cost includes air fare from the West Coast. For details on this and excursions to other remote islands of the South Pacific, see a travel agent or write to Richard A. Goodman's GoodTravel Tours, 5332 College Ave., Oakland 94618.

Tour northwestern Canada. Through August you can join a 15-day expedition to the Arctic. From Edmonton you'll go to Yellowknife and Great Slave Lake for a visit to a gold mine, handicraft shopping, and fishing. You'll then fly to Tuktoyaktuk, an Eskimo village on the shore of the Beaufort Sea. You'll continue to Dawson, Tok Junction, and Valdez in Alaska, and on to Katmai National Monument for a visit to the Valley of Ten Thousand Smokes. The tour ends in Anchorage. The $2,347 cost does not include air fare to Edmonton or back from Anchorage. See a travel agent or write to Maupintour, 900 Massachusetts St., Lawrence, Kansas 66044.

Eurailpass. There are now 16 countries in the Eurailpass network. This year, the railways of the Republic of Ireland have joined the system. They are linked to continental Europe by ships operating between Rosslare and Cherbourg and Le Havre in France. A Eurailpass costs $210 for 15 days; $260 for 21 days; $320 for 1 month; $430 for 2 months; $530 for 3 months. For information, see your travel agent. □

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cheerfully will send complete information, including rates, reservations, and accommodations, upon request.

Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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WESTERN GROCERY DIRECTORY
beginning page 192

SHOPPING CENTER
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Sunset School & Camp Directory

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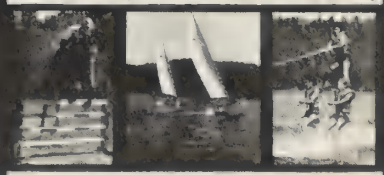

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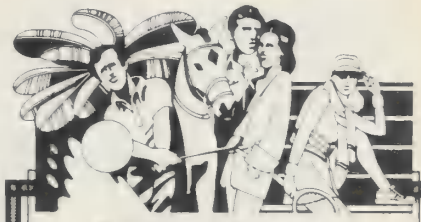

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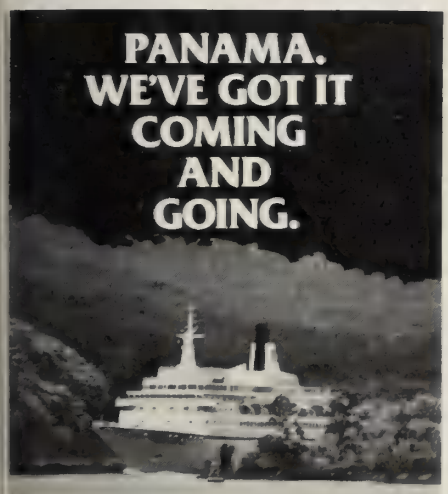

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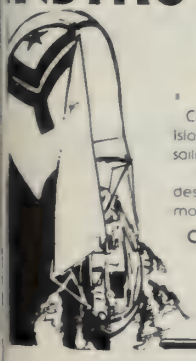

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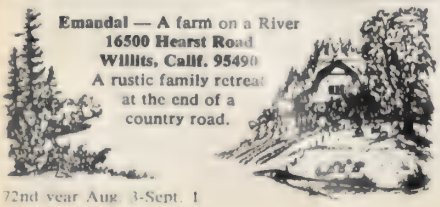

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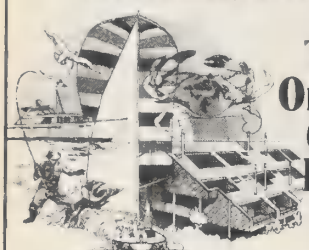

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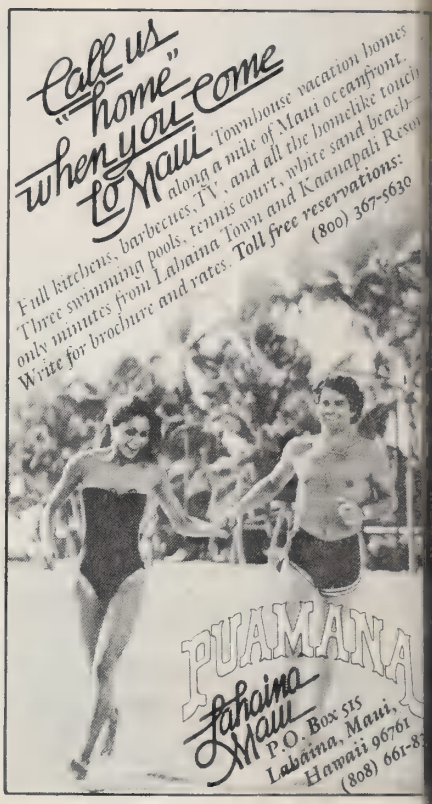

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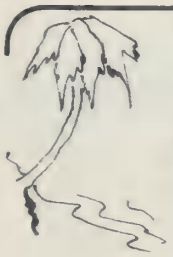

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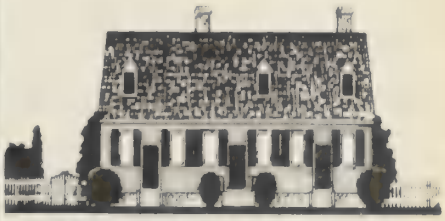

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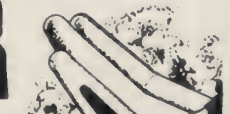

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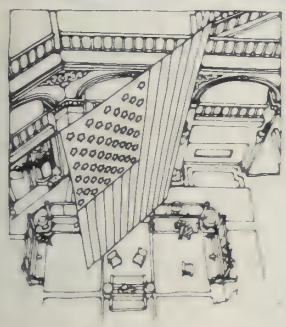

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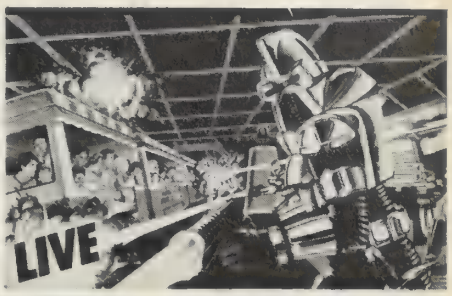

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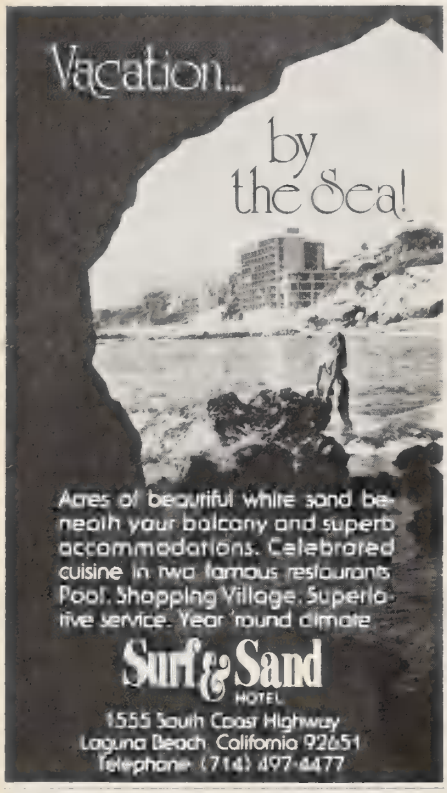

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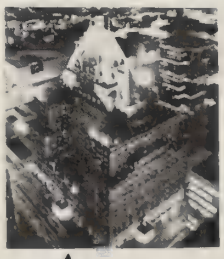

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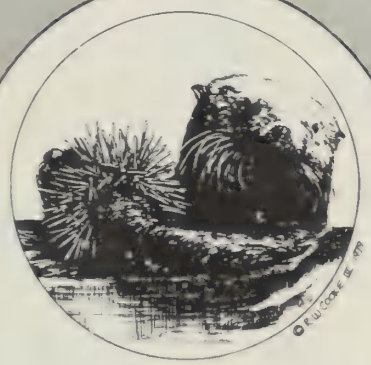

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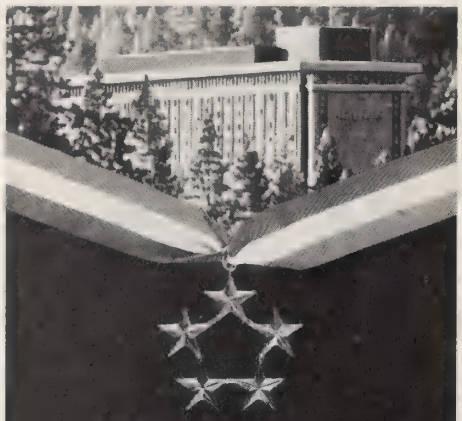

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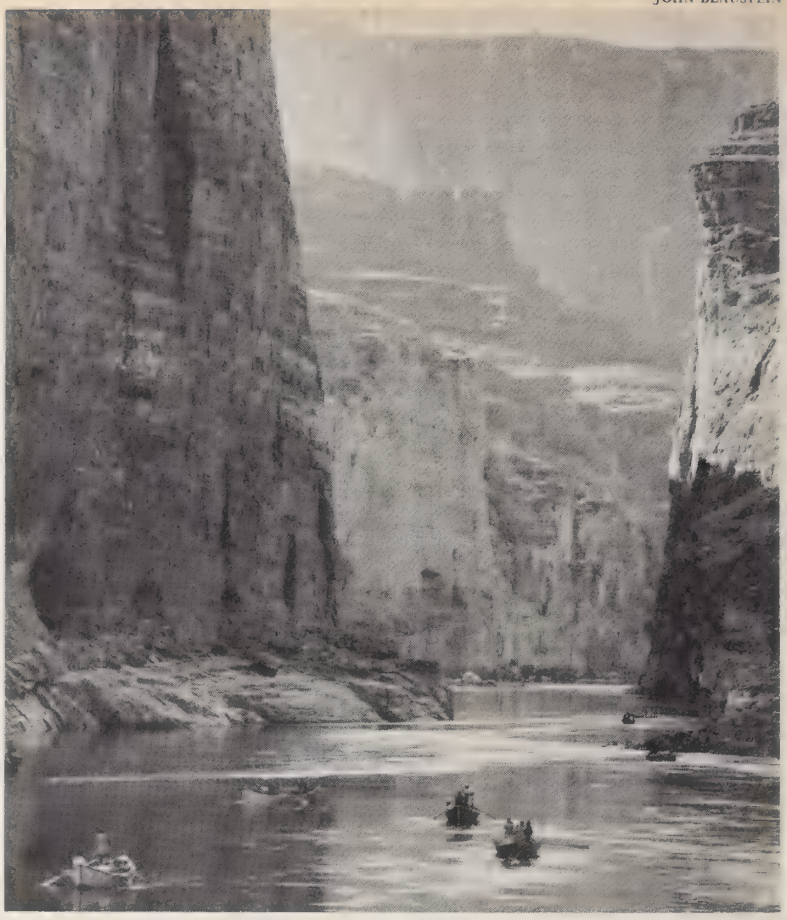

Striated walls *of the Grand Canyon are a riverside geology lesson for passengers on one of the outings offered by the American Wilderness Alliance*

Summer trips into wilderness

Whether you're exploring Colorado's Ragged Mountains, backpacking in the Gros Ventre Range in Wyoming, or floating Utah's Green River, one of the summer trips offered by the American Wilderness Alliance can be something more than a family vacation. Many of the AWA's week-long trips offer a first-hand look at country that conservationists are proposing for official designation as wilderness.

Concerned particularly with wilderness protection in the Rocky Mountain region, the nonprofit AWA was founded 3½ years ago by a group of Colorado conservationists and is based in Denver. Membership is now about 1,500. The AWA is involved with RARE II (roadless area) evaluations, wild and scenic river recommendations, and alternative energy promotion. Trip participants need not be AWA members.

The primary purpose of the wilderness adventure program is to acquaint participants with the values of threatened wild areas while providing a high-quality recreational experience. All trips are conducted by professional outfitters and guides. (Another Western-based national conservation organization that sponso a broad selection of wilderness trips the Sierra Club; write to Outing Depar ment, 530 Bush St., San Francisc 94108.)

Free catalog lists outings

All but a few of the AWA's schedule trips are in the West. An illustrated cata log describes almost a hundred tours an other programs offered now through au tumn. Activities and destinations rang from river-running in arctic Alaska t sailing in the Hawaiian Islands. Severa journeys combine different modes c travel: horse pack trips with rafting, fo example. A number of special-interes outings are geared for teen-agers.

Costs, which usually include food an special equipment, are generally wha outfitters normally charge for commer cial trips. Prices for backpacking trip range from about $250 if you suppl gear to around $325 if equipment is sup plied by the packer.

For the free catalog and membershi information, write to the AWA, 4260 E Evans Ave., Suite 8, Denver 80222; o telephone (303) 758-5018.

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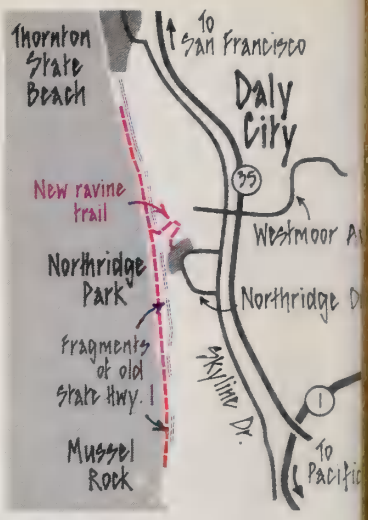
Road no more. *Trail to beach winds far below her precarious vantage point on old State 1*



Northridge Drive *loops through a Daly City subdivision to parking area and trailhead*

Sizable surfperch *is one of several this pole fisherman caught on a cool, gray spring day*

RICHARD AUDSLEY

Near the dark *volcanic extrusions known as Mussel Rock, a youthful pair plays soccer with a sea-tossed beach ball*

New trail leads to 2-mile beach over the hill from Daly City

Just south of San Francisco, the old Coast Highway (State 1) used to perch in a midcliff notch, with spectacular views of sea and surf. But with slides a recurring problem, and slippage and washouts caused by the 1957 earthquake, this part of State 1 was rerouted inland, starting at the north edge of Pacifica.

Blocked to public access, the old highway went to ruin. Now a new park trail midway between Mussel Rock and Thornton State Beach leads to a 2-mile stretch of beach and good views of the road remnants. One caution: the trail down is steep in places; it is not for the elderly, the unsure of footing, or the very young—or for anyone at all on a wet day.

Our map locates your starting point: Northridge Park in Daly City. You can park in the public lot next to the Nichijren Shoshu Academy, a Buddhist center. A few steps beyond the bold timber arch silhouetted against the sky, at cliff's edge, you'll have vertiginous views of breakers on the long strand below.

As you angle down the ravine to the north, notice the fledgling pines and cypresses in the coastal scrub—some of the 1,500 trees planted by the Academy. Halfway down, the trail turns and drops steeply, then becomes more gradual as it snakes to the sea.

Moseying along the beach (almost a mile north to Thornton, or a mile south to Mussel Rock), you'll have views of ech lons of waves, skittering shorebirds, ar above on the cliff face, the crumblin edges of the old highway, edged he and there by a dangling guard rail. Son hikers walk along these remnants, b they are hazardous at all times; one se tion is cut by a long washout.

Mussel Rock is a good turnarour point. Here you'll see pole fishermen se ting lines for surfperch. Here, too, un a landslide last fall obliterated the e trance, was a tunnel from an aborti attempt in 1870 to build a stage ro along the beach.

The terraced grassy slopes opposite Mu sel Rock, a former garbage dump, w eventually be planted with native shru and opened as a day-use park.

SamTrans Coastside buses connect wi BART and run to the corner of Wes moor Avenue and Skyline Drive, a minute walk to the park. For times ar routing, call SamTrans informatio (415) 871-2200.

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Please send me your Homecoming 1980 information package. Dept. 120

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CANADA

Salmon-tempting skein *of cured eggs (below) goes above 2/0-size hook with yarn streamer. At right, anglers hold rods ready for a strike as guide rows McKenzie drift boat*

MICHAEL THOMPSON

Drift boat fishing or shore fishing as spring chinooks head up the Rogue

Rearing back *with his spinning rod to gain line, bank angler reels in what proved to be a big chinook*

As you float along the upper Rogue River in southwestern Oregon, the cool, slightly fishy air and the splashing music of riffles can weigh heavily on your eyelids. Your guide pulls gently at the oars of his McKenzie drift boat as you head downstream in search of spring chinook.

Suddenly comes the thump of a salmon mouthing your bait, and you'd better be ready to set the hook. If you're lucky, you'll play a powerful-pulling fish that may tip the scales at 30 to 40 pounds, though most average 16 to 22 pounds.

Drift boat fishing with a guide is the classic way to catch spring chinooks on the Rogue. And fishing can be very good from mid-May through July as salmon enter the mouth of the river and swim upstream, where they'll spawn later in the fall. Shore casters, too, can share in the action from miles of accessible riverbank—much of it just off Crater Lake Highway (State 62), about a half-hour drive northeast of Medford.

Guided float fishing. On the Rogue, your guide is boatman and teacher; learn from him. He may have you rub your hands with anise oil to help mask the human scent before you thread a skein of cured salmon eggs above the hook. You'll attach a lead sinker weighted according to the speed of the current. Guides equip you with a bait-casting rod and a level-wind reel. Its free spool allows you to thumb off just enough line to keep the sinker bumping the bottom—a technique requiring some practice.

Rogue reward: *a 20-pound chinook for this shore fisherman*

Good spring chinook fishing depends on favorable water temperature. On the upper Rogue, action can be slow below 50°. Chinook seem to hit better between 52° and 55°. Fish here are mature f

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male and male spawners (and immature male or "jack" salmon)—all destined to die after spawning in October. They do not feed on your bait, but only mouth it momentarily. This is the instant when you may feel the "bite" and must strike fast. There are no guaranteed hook-ups, but concentration and teamwork with your guide can better your chances.

Some guides run a morning and an afternoon trip daily. Each 5- to 8-hour trip (two anglers per boat) costs between $80 and $100; all-day trips are available. You'll fish one of about six different drifts (sections) of a 40-mile stretch of river. Pack a picnic. Guides will clean your catch, give advice on its care, maybe share a favorite recipe.

Reserve dates at least a month ahead. For a directory of guides, write to the Rogue River Guides Association, Box 792, Medford, Ore. 97501. (Many of them also lead steelhead trout trips.)

Angling by the riverside. You can fish from shore along much of the upper Rogue. Look for well-signed public parks off State 62 above the town of Shady Cove. Also look along the roadside for lines of cars parked close to favored fishing holes. If you stop, watch out for traffic. Expect almost shoulder-to-shoulder fishermen near popular spots.

Many bank anglers use long spinning rods with fixed-spool, bailer-type reels filled with 200 to 250 yards of 25- or 30-pound-test line. Some use strands of bright orange yarn in place of costly—about $5.50 a pound—salmon eggs.

If salmon aren't hitting, try for some of the Rogue's scrappy rainbow trout.

Limits and licenses. Catch limit is 3 chinook per day (or 6 per week) measuring 24 inches or longer, and up to 10 "jack" salmon per day (20 per week) measuring 12 to 24 inches long. To be keepers, legal-size chinook have to be hooked in the mouth. Snagging is prohibited: accidentally foul-hooked fish must be released—with care—immediately. Check out local restrictions on single hook size.

Be sure you hold a current license; you may also need a salmon tag. For details, ask at a tackle or bait shop that sells Oregon fishing licenses. A convenient source is Pat's Hand Tied Flys, 29350 Highway 62, which is open for license and tackle sales from about 5 A.M. to 10 P.M. daily during the season.

Getting to the upper Rogue. On Interstate 5, take the Crater Lake Highway exit north in Medford. Air Oregon and United Airlines serve Medford; you can rent cars at the airport.

For information on lodging or camping, ask your guide or write to the Greater Medford Visitors and Convention Bureau, 304 S. Central Ave., Medford, Ore. 97501; (503) 772-5194. □

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*Compare these estimates to the estimated "MPG" of other cars. Mileage varies with speed, weather and trip length. Actual highway mileage will probably be less. ©1980 Volkswagen of America

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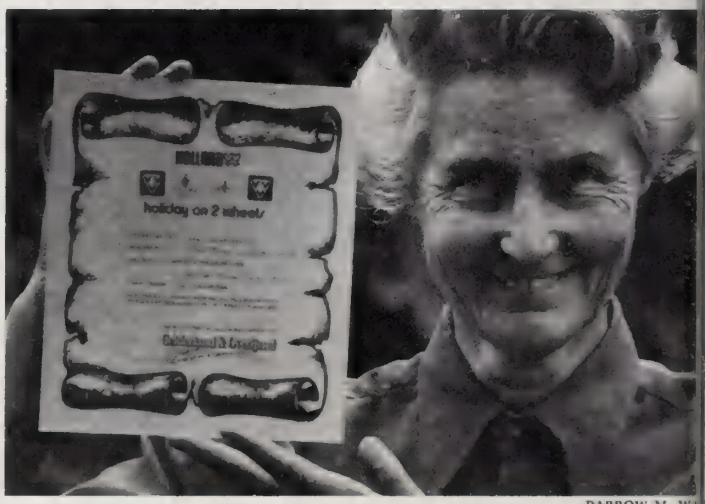
MADELYN VAN RIJCKEVOR

Pumping against the wind *on 17-mile Markerwaard dike from Enkhuizen to Lelystad w part of Sunset reporter's 420-kilometer (260-mile) tour. Upon completion she received a certific*

Pedal across Holland, six to nine days, your rooms reserved



DARROW M. W

Information center *in Lelystad has multimedia show in English on how Dutch reclaimed 500,000 acres from Zuider Zee*

Over dikes, past windmills and watermills and traditional farmhouses, on land that's mostly pancake flat, you pedal through the Dutch landscape at your own pace—a daily average of 30 miles for six to nine days. You don't have to plot your itinerary: written instructions in English guide you on your way. And you needn't worry about where to spend the night: a room in a hotel has been reserved. All this is offered by Holiday-on-Two-Wheels, a program organized by local tourist associations.

Eight tours, with different starting points, are carefully mapped over bicycle paths and quiet rural roads. Most avoid towns, although you're never far from one if you want to visit a museum, a specialty restaurant, or a bicycle shop. (A repair kit does come with your rental bike.)

The nine-day Holland - Cross Count tour includes two nights in a hotel in t heart of Amsterdam. Looping out Arnhem, this ambitious tour (260 mil also offers a sampling of Dutch countr side: heathery moors of Hoge Veluv National Park; twisting roads and sma dike-girded fields of North Holland; a like a Mondrian painting, straight roa geometric fields, and look-alike eq distant farms on land reclaimed from t former Zuider Zee.

The other seven tours of the 1980 pr gram cover less distance and concentra on one area, such as the Rhine-an Meuse river area or the eastern Neth lands region of Twente.

Tours are "all-in": the average daily c of $25 to $35 includes bike rental, t meals a day, and hotel accommodatio

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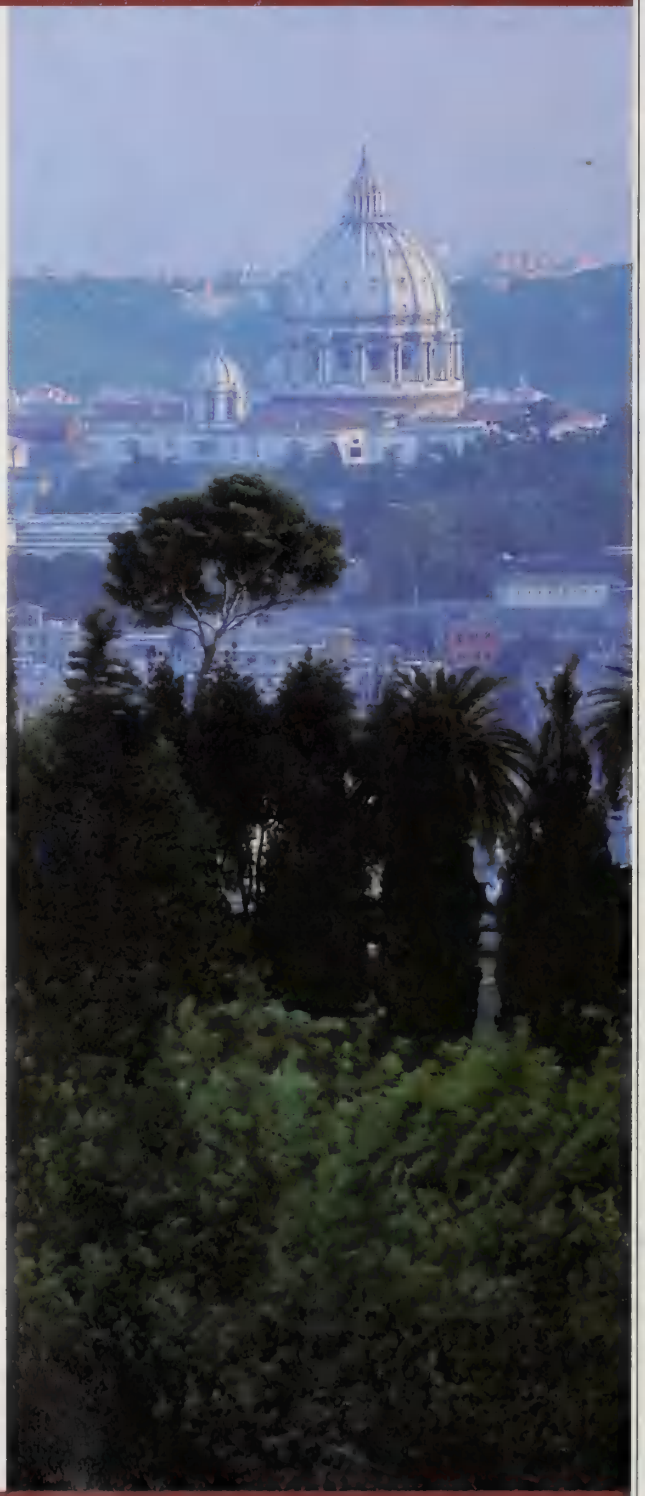

at Hilton International

Route directions *lead cyclist through rural town, where milk cans await pickup*

Uitsmijter *(open-faced roast beef sandwich topped with fried eggs) is lunch en route*

(double occupancy) ranging from economy to deluxe. Rental bikes are sturdy three-speeds, perhaps with coaster brakes, and outfitted with canvas side bags to hold flight bags or a knapsack packed with personal gear.

Menus for hearty three- or four-course dinners are fixed—you might hear them called into the kitchen as *"fietsarrangement!"* (bicycle arrangement). You may be able to substitute, perhaps at extra cost. Breakfast consists of bread with cheese, sliced meat, and soft-boiled egg.

Touring season is April through October. If you go midsummer (book early!), you will likely meet other cyclists making the same tour. They may be Dutch or from other countries. Expect some rain, although our editor cycled seven days in September without a drop. For a brochure, write to Netherlands National Tourist Office, 681 Market Street, San Francisco 94105; (415) 781-3387. □

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BILL ROSS

Built as a bridge, *the design college's new home spans canyon on Pasadena hill*

The bridge is the building. Inside is an explosion of art and ideas

You can see work by professional and soon-to-be-professional artists and designers when you come to Pasadena's Art Center College of Design. Drop in and visit the changing gallery shows. Or join a tour and see what's going on in classrooms and workshops: sophisticated projects in automobile design, photography, illustration, and more.

The college's new building high above the Rose Bowl, designed by Craig Ellwood Associates, is itself worth a look—dramatic from a distance, impressively functional up close. It's been the home of the 50-year-old college since 1976. The main gallery of the lobby, where you join the regularly scheduled tours, displays student projects.

In the south gallery, next to the lobby, you can see selected works by students or special exhibits.

Free guided tours are given Mondays and Wednesdays at 2 P.M., Fridays at 10:30 A.M., except during holidays and school breaks. To arrange a group tour, call (213) 577-1700; ask for Gail Davis.

To reach the college, exit eastbound from the Ventura Freeway (State Highway 134) at Colorado Boulevard. Turn left on Orange Grove Boulevard, left on Holly Street, right on Linda Vista Avenue about 2 miles, and left on Lida Street; go uphill to the college. If you're traveling westbound on State 134, exit right to Holly Street at Orange Grove Boulevard. □

Full-scale *car designs done by Art Center students may foretell future models from Detroit*

Giant clothespin *was part of a project in scale and materials*

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505. THE ONLY CAR IN ITS CLASS "THAT MAY STILL BE IN TUNE WITH THE TIMES TEN YEARS FROM TODAY." – Autoweek

The new 505 from Peugeot is truly a car that doesn't require any compromises.

From the sleek lines outside, to the brilliant planning inside, the 505 is designed for today as well as tomorrow.

Everything about the car is built for the driver. The perfectly natural angle of the steering wheel. The expansive windshield that offers you a view of the road instead of a view of the hood.

The appointments are superb.

An international dashboard (with simple symbols rather than words) lets you "read" everything at a glance.

The placement of the controls is so efficient that the driver has merely to gesture, rather than move.

For the driver and his favorite passenger, there are orthopedic bucket seats with back headrests. The seats adjust to any position. The headrests adjust as well.

There is more than enough room —head room, leg room and seat room—for the driver and four passengers. And the kind of interior space that doesn't make you feel like you've been "downsized."

The ride itself is outstanding. Compliments of a European suspension system that protects you from the imperfections of the road. And thanks to Peugeot's patented extra large shock absorbers which soften the bumps.

The handling is effortless. In this case, the tightness of the car lending itself to the ease of the driver. (Power-assisted rack-and-pinion steering helps, of course. So do power-assisted disc brakes on all four wheels.)

The 505 Diesel is equipped with a 4-speed manual transmission and delivers an impressive EPA estimated 35 mpg highway, and an estimated 29 mpg.*

The 505 gasoline version is equipped with a 5-speed manual transmission (combined with a Bosch K-Jetronic fuel injection system) to make it one of the most responsive automobiles you've ever driven.

Add to all that the fact that at Peugeot a car is built, not merely assembled. And tested individually.

And what you get is a car that isn't just right for ten years from now. It's right for all the years in between.

*Peugeot 505D, manual 4-speed transmission. Remember. Compare the boxed estimate to the estimated mpg of other cars. You may get different mileage depending on how fast you drive, weather conditions, trip length and condition of your car. Actual highway mileage will probably be less than the highway estimate.

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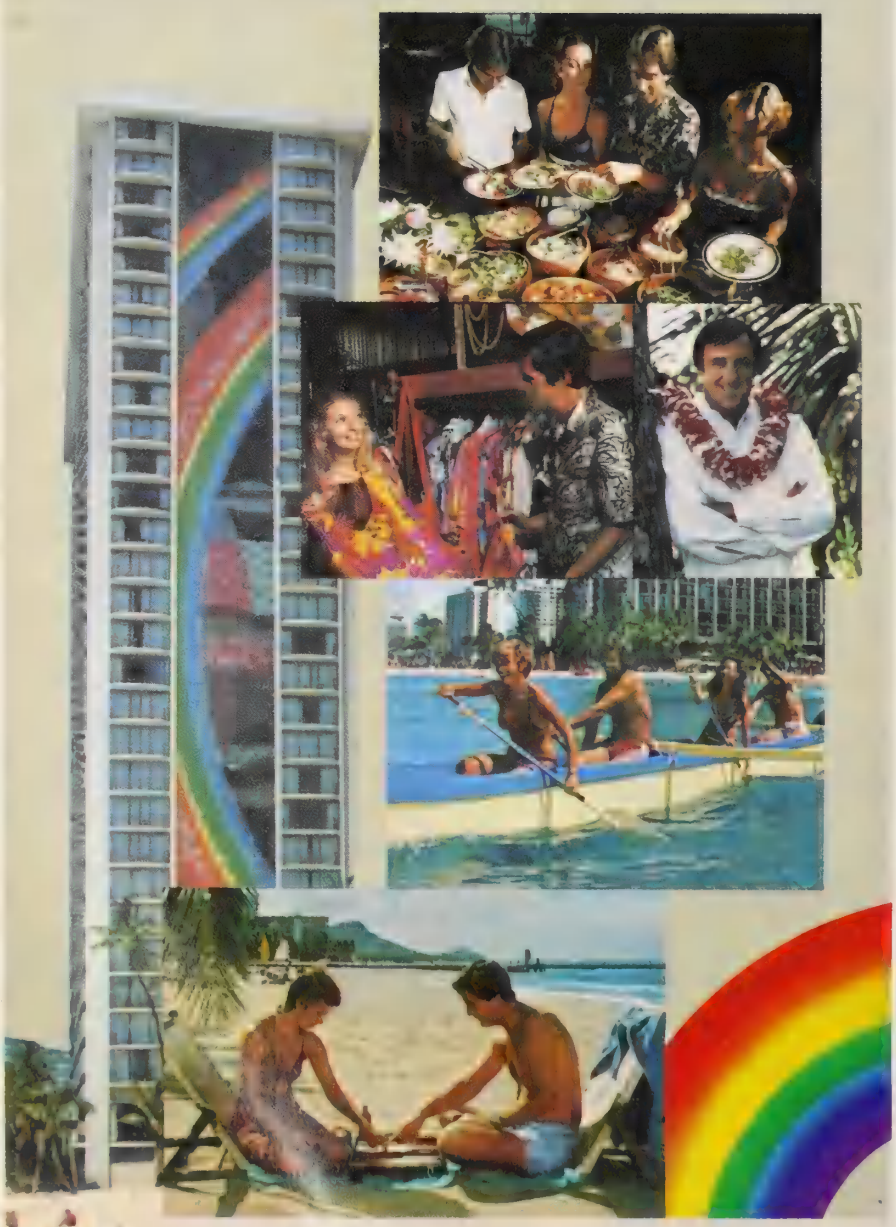

HILTON HAWAIIAN VILLAGE

Call your local Hilton Reservation Service or your Travel Agent

Trumpet clusters *of white Rhododendron 'Boddaertianum' attract Pukeiti visitor*

Rhodo watching in New Zealand

There's no better rhododendron climate on earth than that enjoyed by the Pukeiti Rhododendron Trust in New Zealand. The moist, temperate air and rich volcanic soil create conditions in which rhododendrons reach tree-like proportions and even seed themselves in the paths like dandelions.

Situated on the flank of conical, snow-capped Mount Egmont overlooking the Tasman Sea, this 900-acre private reserve is a combination of natural "bush" (semitropical forest) and planted gardens, lawns, and walks.

Here you can see virtually every species of rhododendron, as well as rare hybrids, some of which are guaranteed to be blooming any time of year. Rhododendrons and azaleas are at their peak from late October through November, but the floral show is excellent from June through March.

Visitors strolling miles of paths will see impressive camellias, magnolias, lilies, and other perennials in the formal gardens. Hiking "tracks" take the more adventurous among trees, shrubs, and tree ferns forming the dense bush. Mosses and ferns of many forms line the trails and grow on the trees. You will also see native tree fuchsias up to 40 feet tall.

Pukeiti Rhododendron Trust is about 15 miles southwest of New Plymouth, 250 miles southwest of Auckland, on the North Island. To reach the gardens from New Plymouth, head south on Carrington Street, which becomes Upper Carrington Road. Neuman's Sightseeing Tours run from New Plymouth to Pukeiti daily at 1 P.M. ($6 each, minimum five persons; call 84-226 weekdays, 87-790 weekends). The gardens are open daily from 9 to 4. A donation is requested. □

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spending a hot day at the beach, or using it as a second cooler on an extended camping trip, Oscar gives you an extra margin of cool. You can use less ice, have more room for food and drinks. And with the price of ice today, that's cool too.

Drink holders are built into the "flip-side" of Oscar's lid. A very neat feature, especially for boats or traveling.

Lid-locking handle makes Oscar secure when shut, easy to open. That handle is broad and contoured for comfortable carrying too.

Sit on it. Oscar's lid is extra-strong, and flat so you can sit on it. (Try that with the other compact!)

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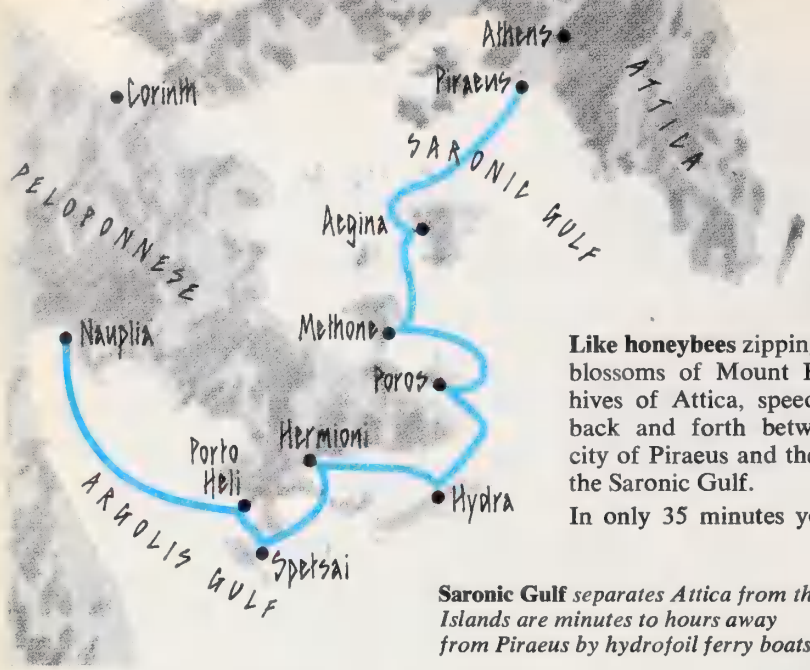


To Greek island villages by speedy hydrofoil

Like honeybees zipping between the sage blossoms of Mount Hymettus and the hives of Attica, speedy hydrofoils dart back and forth between Athens' port city of Piraeus and the island villages of the Saronic Gulf.

In only 35 minutes you can be visiting Aegina, with its waterfront *taverns*, white-sand beaches, and well-preserved Temple of Aphaia.

In twice that time you can be in rocky Hydra, where steep terraces of brightly painted villas hover above the harbor.

In less than 4 hours you can buzz all the way around the Argos peninsula—with stops at Poros, Hydra, Hermioni, Spetsai, and Porto Heli—to the beautiful resort city of Nauplia (Návplion). Nauplia, with its many fine hotels and a seemingly endless array of beachfront tavernas, is the gateway to the Peloponnese, with easy day trips to the excavations in ancient Corinth, the Cyclopean ruins of Mycenae and Tiryns, and the famous amphitheater and museum at Epidaurus.

Saronic Gulf *separates Attica from the Peloponnese. Islands are minutes to hours away from Piraeus by hydrofoil ferry boats*

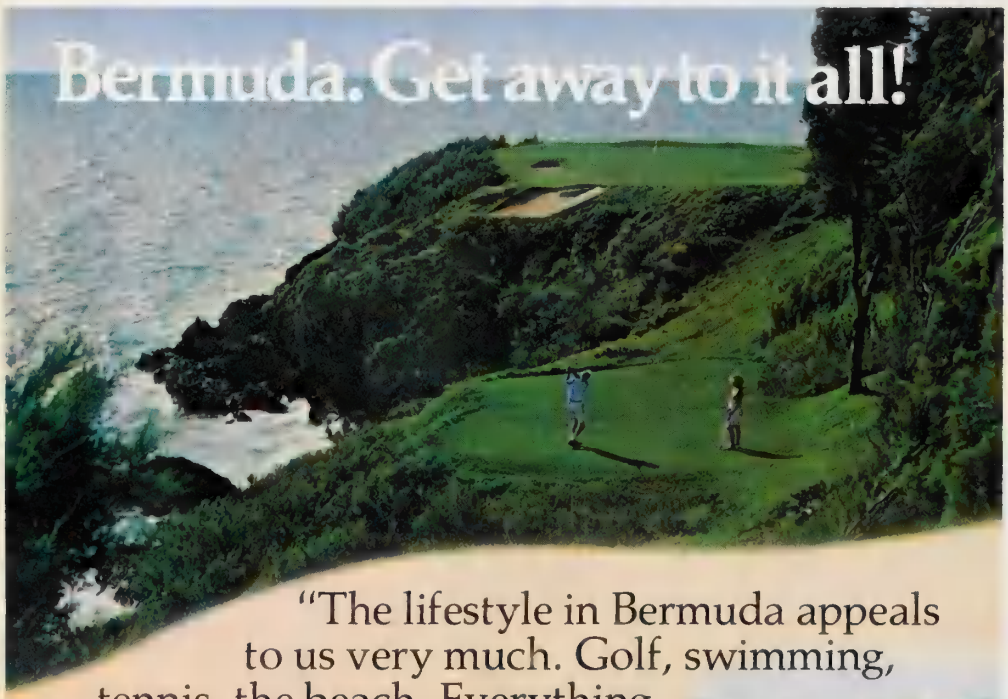
To Aegina. The first departure from Zea Yacht Harbor in Piraeus is at 7 A.M., then hourly (except at noon) until 7 P.M. One-way fare is 133 drachmas (about $4). You could book an early-morning departure for Aegina, spend a leisurely day on this biggest of the Saronic islands, and be back in Piraeus by early evening. The last departure for Piraeus from Aegina is at 7 P.M.

To Hydra and Poros, with varying stops at Hermioni, Spetsai, and Porto Heli. Hydrofoils depart Zea Yacht Harbor at 8 A.M. (direct to Hydra), at 8:30 A.M. (direct to Poros), at 2 P.M. (one direct to Hydra, the other direct to Poros), and at 6 P.M. (two more direct round trips to each island). One-way fares to Poros are about $8, to Hydra about $10. During the busy summer season, there are additional early morning, late afternoon, and weekend departures. Return trips to Piraeus depart Hydra at 11:20 A.M. and 5:30 and 7:15 P.M. depart Poros at 11:45 A.M. and 5:05 and 7 P.M.

To Nauplia. On this overnight (or longer) trip, you leave at 2:30 P.M., stop in Poros, Hydra, Hermioni, and Porto Heli, and arrive in Nauplia at 6:20 P.M. Hydrofoils depart Nauplia at 8:15 A.M., arrive back in Piraeus about noon.

Hydrofoils are most popular with Athenians who lease or own beach houses on the nearby islands, but visitors are taking them too, and discovering the charms of these easy-to-get-to islands so close to the Greek capital. Reservations are advised, especially from May through September. Ask your travel agent to handle this, or write to Passenger Booking Office, Hydrofoils Joint Service, 8 Akti Thermistokleous, Piraeus, Greece.

For additional information on Greece write to the Greek National Tourist Organization, 627 W. Sixth St., Los Angeles 90017. □



"The lifestyle in Bermuda appeals to us very much. Golf, swimming, tennis, the beach. Everything you want, at your fingertips."

Stephen and Ann Bell talk about the Bells' second visit to Bermuda.

"The architecture is a delight. It's nice to see a house exactly as it was. Like stepping back a hundred years."

"I don't see how Bermuda can be improved upon. This is only the second time we've been here. But it's not going to be the last."

See your travel agent or write Bermuda, Dept. 507, 630 Fifth Avenue, N.Y., N.Y. 10020 or Suite 1010, 44 School St., Boston, Mass. 02108 or 300 North State Street, Chicago, Ill. 60610

Other casual luggage is all skin. Nouveau Hobo is all skin and bones.

Casual luggage may be easy to carry. But packing it is like trying to stuff a sausage.

And once you unpack, your carefully folded clothes look like you slept in them.

Well, someone finally added some much needed structure to casual luggage. And that someone is Hartmann's Nouveau Hobo.

Only Nouveau Hobo features the Featherflex frame. It works like a skeleton to help our luggage keep its shape—making packing (almost) a pleasure. And when you unpack, your clothes will be neat as a pin.

What's more, our exclusive Featherflex skeleton makes this luggage feather-light enough to carry with ease. And tough enough to withstand the pummeling of even the meanest, most ornery baggage handler.

To cover our bone structure, you can choose from the toughest skins around. Nylon fisherman's packcloth, industrial belting leather, or luxurious Ultrasuede.®

And since airports are a prime cause of greasy, grimy blemishes, our skin is treated with Du Pont Teflon.® Just a quick scrub—and a Nouveau Hobo's complexion clears up fast.

For those last-minute, easy-to-forget items, we've got a passel of easy-access, exterior-zipper pockets.

There's even a shoulder strap on most Nouveau Hobo that makes carrying them more hassle-free.

So when you want luggage that's casual but not cumbersome, beautiful but not back-breaking, functional yet fun—take a Nouveau Hobo on your next trip.

And bum around in style.

Nouveau Hobo by hartmann

Du Pont TEFLON® soil & stain repeller

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SUN, SAND & FREE.

Free, when you come to the Virgin Islands for 8 swimming, sailing, sunlit days ıd 7 dining, dancing and moonlit nights:

On St. Croix: Free sightseeing tour of the island * Free discount coupons for any leading shops on duty-free St. Croix * Free beach ball * Free bottle of Virgin lands rum * Plus discounts on a sunset sail, car rental and boat rentals.

On St. Thomas: Free trip on a boat * Free sightseeing tour of the island * Free 'leasure Card" for discounts at leading shops, restaurants and attractions on ıty-free St. Thomas * Free use of snorkeling equipment for one day * Free beach ıll * Free bottle of Virgin Islands rum.

In addition to the free items listed, many hotels offer special surprises for you ı your holiday. (It could be anything from a steel band/limbo show to a Manager's ɔcktail Party.)

For more information, see your travel agent, American Airlines or Eastern irlines. The package is available from now until December 14, 1980.

P.S. What about the weather in our spring/summer/fall? Our climate is so ıusual it has been written up in an independent U.S. study: "The Virgin Islands ıve completely comfortable conditions at least 11% more often than other major sorts in the area. One of the outstanding features is the steadiness of the trade inds. The average mean temperature of winter is 77°F; of summer, 82°F." (Now at doesn't sound mean at all!)

United States Virgin Islands

St. Croix · St. John · St. Thomas

1980 United States Virgin Islands Division of Tourism, 10 Rockefeller Plaza, New York, New York 10020.

The slurp *is the secret to eating Japanese noodles. This meal in Fuji Five Lakes District cost $1.50*

Sushi, *egg sandwich, apple, grapes, sweets, soft drink, chopsticks, and a glorious view of the Sea of Japan, at Tojimbo. Cost for the picnic: under $5*

How expensive is Japan?

At the deluxe level about the same as Western U.S.A. Rarely more. And there are interesting and more economical alternatives

A $10 beer and a sky-high hotel bill—we've all heard the reports of the exorbitant cost of visiting Japan. But that reputation may be due for a change.

Japan is one place where the dollar has actually strengthened over the last two years. In August 1979, the dollar fetched 175 yen. It advanced to 240 yen early this year and at press time had risen to 250, a total increase of over 40 percent and a boon to the dollar-armed tourist. In fact, a *Financial Times* of London survey now shows Tokyo as only the ninth most expensive city in the world (top honors go to London).

You can expect travel costs in Japan, at least at the deluxe level, to be similar to those in the Western U.S. Our charts compare these costs in three areas—food, accommodation, and transportation—of vital concern to all travelers.

If you're like most Japan-bound travelers, you'll sign on with a group and leave home with hotel rooms, some transportation, and at least a few meals prepaid. Group travel ca save you money as well as energy—there's no getting lost grappling with a completely unfamiliar language.

But consider planning some days on your own after the tou has introduced you to Japan. If you're interested in a tou that visits several countries, pick one that ends in Japan (yo probably can delay a return flight at no extra cost) or on that lets you return via Japan. You may even find that Japa can be something of a bargain. For suggestions, consult travel agent who knows Japan well or write to the Japa National Tourist Organization (JNTO) at 1737 Post St., S Francisco 94115; 624 S. Grand Ave., Los Angeles 90017; 2270 Kalakaua Ave., Honolulu 96818.

FOOD

The choice isn't just between pickled radishes and seawee soup served 15 inches off the floor and a hamburger the pri

Guest in ryokan *(Japanese inn) is helped into a cotton yukata*

f a silk necktie. Western food is not necessarily more ex-
ensive than Japanese; but also, don't assume food that is
heap at home will be a bargain here. Generally steer clear
f such temptations as fresh orange juice, beef, melon, and
cotch.

xpense has much to do with where, not what, you eat. Real-
state prices are higher in Japan than anywhere in the world.
meal in a small restaurant on a major thoroughfare will
enerally cost more than food at a second-floor restaurant
n a side street. And there's little to fear from trying a
heaper, side-street restaurant, for the Japanese maintain a
igh standard of food preparation and cleanliness. Most
estaurants display replicated food in the front windows to
how you what is on the menu and what it will cost. If your
eal costs less than $8, you avoid paying a 10 percent tax.
Iore expensive restaurants often add a 10 to 15 percent
ervice charge.

he following categories of downtown restaurants are espe-
ially convenient for lunch. (For more information on the
ariety of food, particularly in Tokyo, see the August 1978
unset.)

Department stores. Large department stores often reserve the
p floors and the basement levels for restaurants that offer
Vestern and Chinese cuisine in addition to Japanese. The
ores may have as many as 19 restaurants, designed to en-
ce shoppers rather than to show a profit. Ranging from
odest snack shops to branches of famous restaurants, they
pen in time for lunch and close around 5:30.

Office buildings. What would pass for a company cafeteria

Spotless *bunk-bed accommodation is typical of national park lodges. Meals are often included in the room price*

in this country is often, in Japan, open to anyone. Lunch in a downtown office building costs $2 to $5. After work, the menu shifts to snacks and *sake*. Hours are 11 A.M. to 9 P.M.; closed Sundays and holidays.

Arcade and subway eateries. You haven't traveled over 5,000 miles to eat in a subway station, and these won't be the culinary highlights of your time in Japan. But in central Tokyo and major cities, the subway stations and underground shopping arcades offer clean, convenient, and sometimes tranquil restaurants, open daily from 11 A.M. to 8 or 9 P.M.

Restaurant costs, Japanese-style dinner

San Francisco		Tokyo	
Tokyo Sukiyaki Restaurant		New Tokyo Honten Restaurant	
Sushi nigri	$ 8.50	Sushi deluxe	$ 5.00
Salad	1.25	Salad	2.00
Miso soup	1.00	Miso soup	.50
Sake	2.00	Sake	1.00
	$12.75		$ 8.50
(6½% tax)	.82	(10% tax)	.85
(15% tip)	1.91	(15% service)	1.27
	$15.48		$10.62

Breakfast at a deluxe hotel
(Juice, toast, bacon, eggs, coffee)

Beverly Hills		**Tokyo**	
Beverly Hills Hotel	$9.50	Imperial	$6.50
Honolulu		New Otani	$5.00
Hyatt Regency Waikiki	$6.95	Okura	$6.25
Phoenix		Tokyo Prince	$5.00
Arizona Biltmore	$7.25	**Osaka**	
Salt Lake City		Royal	$6.30
Hotel Utah	$4.50		
San Francisco			
Fairmont	$7.25		

ACCOMMODATIONS

Japanese cities are among the safest in the world. You don't need to stay in an exclusive district or an expensive hotel to feel safe—nor for a guarantee of quality. Unlike most other destinations in Asia, Japan has a large middle class. Where they stay on their travels would suit most Westerners; the major inconvenience may be the lack of a Western-style bathroom.

JNTO will mail to you lists of accommodations in the following categories. You write to Japan for reservations.

Business hotels. A room in one of these hotels, centrally located and built in the last 15 years, resembles ship's quarters or a train compartment—you can practically reach from wall to wall. Your room may include a tiny television. Expect to pay about $30 for twin beds, double occupancy.

Ryokan (Japanese inns). Today some "inns" come nine stories tall in ferro-concrete, but inside they're as traditional as a wooden cottage. Off come the Western street clothes (the maid will oversee your transformation) and on goes the cot-

Hospitality *awaits in a deluxe Western-style hotel room with items to cheer, warm, and refresh guests*

The Bullet *pulls into Kyoto. Reserved seating is five-across*

ton *yukata* robe. Guests pad around the halls in this garb on their way to the garden or the bath (you may also have a private bath). Meals are served in your room (an appreciated concession at one ryokan we visited was a rigid seat back attached to the floor cushion). Meals will be about 10 to 20 percent of the total cost, which averages about $45 per person, not including a 10 to 15 percent service charge.

Deluxe Western-style hotels
(Twin with bath, double occupancy)

Beverly Hills Hotel	$88–$125	Imperial	$70–$100
Hyatt Regency Waikiki	$65–$ 85	New Otani	$70–$ 80
Arizona Biltmore	$95–$120	Okura	$73–$ 90
Hotel Utah	$53–$ 82	Miyako, Kyoto	$52–$158
Fairmont	$92–$135	Royal, Osaka	$58–$ 92

Minshuku (guest houses). Here you're the guest of a Japanese family. In the morning you put away your own bedding and share the fruit and vegetables of the season. Usually located in scenic areas, *minshuku* offer savings over hotel accommodations. The rates average $16 (no tax or service charge). Most are convenient to buses and trains.

Kokumin Kyuka-mura (national vacation villages). Work-fatigued Japanese and their families head to these park-like resorts to rest and to indulge in outdoor activities: boating, hiking, camping, skiing. Visitors who are willing to assume a Japanese style of life for a few days are welcome.

You will pay about $10 a night per person or about $18 with two meals at any of these 29 villages. Advance reservations are necessary. Write to JNTO or directly to Kokumin Kyuka-mura, c/o Tokyo Kotsu Kaikan Bldg., 2-10-1, Yura-kucho, Chiyoda-ku, Tokyo. They are most crowded in July, August, and October.

Kokumin Shukusha (people's lodges). Here is where the Japanese stay while they soak up the sights of the national parks. There are 342 of these spartan facilities, giving you a wide choice of location. Cost: $8 per person, $15 with two meals.

GETTING AROUND

Trains so dominate travel in Japan that the official travel guide compiled by the JNTO dissects the country by rail routes. Trains, both public and privately owned, are punctual, clean, and efficient. Signs at most train stations and on the sides of trains are written in English.

The Bullet train (Shinkansen, or new trunk line) connects Tokyo with such cities as Nagoya, Kyoto, Osaka, Hiroshima, and Hakata on the island of Kyushu. It's a quiet, cushion ride at speeds to 130 miles an hour, guarded against flood earthquake by sensors that shut down the train at any s of trouble. If you arrive more than 2 hours late, the cost the trip is refunded in full.

Air service has grown rapidly over the past decade. There four domestic lines. But before deciding that air is the fast means between two points, ask about ground transportati needed to get to and from airports. To fly from Tokyo Kobe, adding ground time, is only 45 minutes faster th taking the Bullet train.

Rental car agencies are affiliated with major American o fits. Driving gives you flexibility but you must drive Englis style on the left side of the road while coping with unfamili road symbols and directions often written only in Japane Trips tend to be short, so cars rent by the hour as well as the day. Gas costs extra, currently $2.50 a gallon.

Transportation costs

San Francisco-Los Angeles	Tokyo-Kobe
Amtrak, Coast Starlight	**Bullet train**
11½ hours, 430 miles	3½ hours, 370 miles
$34.50	$40
Air	**Air**
330 miles	250 miles
$53	$42 (Itami Airport)
Rental car	**Rental car**
390 miles, Toyota Corolla	353 miles, Toyota Corolla
1 day, $147 plus gas	1 day, $150 plus gas
Taxi in Los Angeles	**Taxi in Tokyo**
3-mile ride	3-mile ride
$4 plus tip	$3.65, no tipping

City subways run beneath Tokyo, Yokohama, Nagoya, Osak and Sapporo. Station signs are in English. In Tokyo, lines ar identified by name and color, and except during morning an afternoon *rasshu awa*, you'll be able to sit down on the velve upholstered seats.

City buses are not recommended. Drivers don't speak Englis or have time to help you, traffic can be jammed, and signin is only in Japanese.

Taxis, brightly painted and identified by roof lights, are fo hire if a red light shines on the left side of the windshield Stand back until the door flies open, however, as it's con trolled from the driver's seat. Drivers probably can't speak English but can often read place names in English. Write th name of your destination or have someone write directions i Japanese. Your hotel may have cards with printed return-trip directions.

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DAVID STUBBS

Catch. *Arching fly rod helped warmly dressed angler fight Lahontan cutthroat in chill waters of Martis Creek Lake late last autumn*

Martis Creek Lake and its wild fighters. Catch, release

Wild trout and trout caught in the wild aren't necessarily the same. All too often, the back-country angler casting in pristine waters pulls out a fish that is in fact native to a cement rearing tank in some distant hatchery.

This spring, sport fishermen in California can attempt to catch truly wild trout at Martis Creek Lake, near Lake Tahoe. This reservoir is California's first official "wild trout lake," and it's being specifically managed to protect a native fish that has all but disappeared from California waters: the Lahontan cutthroat trout. Early reports on catch-and-release angling at Martis indicate the project is already a success.

Sport fishermen are permitted to cast for the hard-fighting trout from April 26 to November 15—on a no kill (zero limit) basis. You must use only artificial lures or flies with a single, barbless hook (if your hook has a barb, use pliers to bend it completely down). Lake tributaries, where the trout will head to spawn later this month, are closed to all fishing.

Spring and fall seem to be the best seasons for fishing at Martis, with midday often as favorable a time as morning or early evening. The lake is small enough so that you can work a sizable stretch of shoreline in a day, and its nearly treeless banks give fly fishermen a good opportunity to develop their casting. Last autumn we saw several 14- to 16-inch fish taken on flies from the bank, and during the season, trout up to 24 inches were caught.

Release. *Unharmed, 15-inch trout had its portrait quickly taken in wet hands. It's best to leave fish in the water*

Once you hook a fish, bring it in quickly. Leave the fish in the water while you slip out the hook. Try not to handle the trout. If your trout is overly tired ("gasping"), gently move it back and forth in the water to oxygenate the gills until it vives enough to swim away.

Efforts to protect the Lahontan cutthr go back some years and have involv several agencies.

At one time, cutthroat abounded many streams along the eastern Sier Martis Creek, a major tributary of Truckee River, was just one of them. by the mid 1940s, crossbreeding w planted rainbows and competition fr introduced brown trout—along w heavy fishing pressure and loss of habi —had greatly reduced the cutthro former abundance.

In the early 1970s, a U.S. Army Co of Engineers flood-control dam creat a 70-acre lake on the creek. In 1974, State Department of Fish and Gam at the urging of a San Francisco-bas conservation group called Califor Trout, designated the new lake under t state's Wild Trout Program, begun 1971. But it took several years of stu before the Lahontan cutthroat trout w selected to breed in its waters.

In November of 1977, Martis Cre Lake and its tributaries were chemica treated to remove competing species fish. The following spring, adult, yea ling, and fry cutthroat from nearby dependence Lake were introduced. A last spring, when mature cutts we found spawning in the reservoir's trib tary streams, biologists and conservatio ists congratulated one another like pro new parents.

Although not widely publicized, catc and-release fishing was permitted on t lake last season with considerable su cess. The catch rate was 0.6 fish p hour, with an average size of at least pound. Three nearby lakes that a stocked and allow anglers to keep a lim had almost the same catch rate, but t average size of fish caught was only quarter of a pound.

To get to Martis Creek Lake from Inte state 80 at Truckee, take State Highw 267 south 3 miles, turn left at the Mart Creek turnoff, and continue 1.4 miles a right-branching road leading to Alpi Meadows Campground. It's ¼ mile the campground (where the paved roa ends), then another ½ mile to the lak on graded gravel road. The 25-unit Arm Corps of Engineers campground is fre but it operates on a first-come basis an fills early.

Last year, the success of California Wild Trout Program in general helpe earn passage of a law requiring the D partment of Fish and Game to annuall identify at least 25 miles of stream an one lake each year as potential speci management waters.

To contribute suggestions, write to th Department of Fish and Game, 141 Ninth St., Sacramento 95814.

Oops! Forgot to focus!

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Oahu.

HAWAII'S "ISLAND CITY" WAITS TO SHARE ITS PLEASURES.

Shaded by Diamond Head, shaped over a thousand years, Honolulu touches the Pacific, then reaches back to the silent mountains of the Koolaus.

Lights from hillside neighborhoods cascade to the sea and the beach at Waikiki.

In this tropical city of misty moods, the sounds, the dances, the conversation look back to old hula moons, ancient Hawaiian chants and forward to an electric evening's disco.

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Includes accommodations at the Hawaii Dynasty hotel, half-day city tour on Oahu, lei greeting, orientation briefing, tour host, and roundtrip airport transfers. (ITWHOL-SWTWA07)

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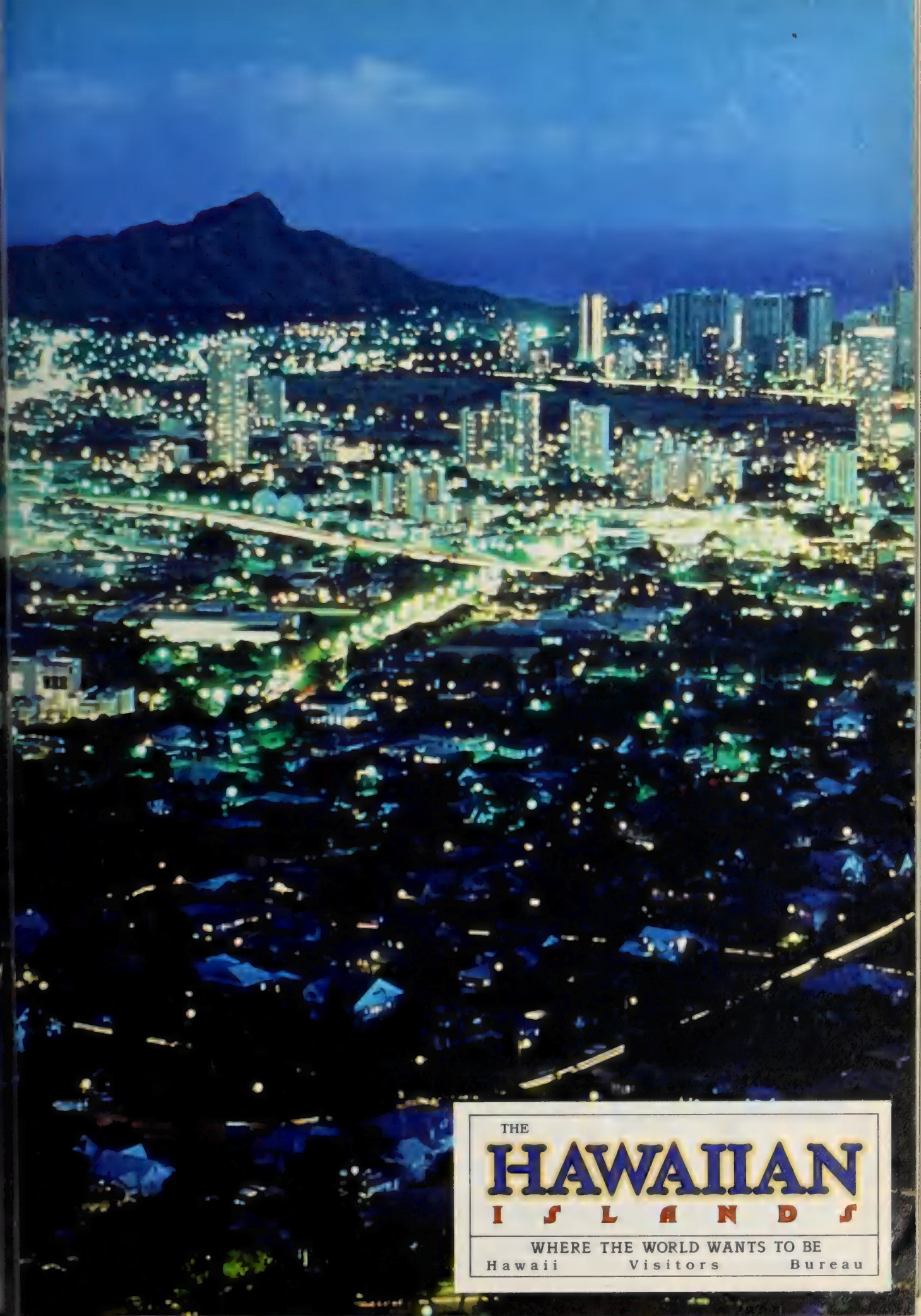

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GREGG MANCUSO

Pillared City Hall *was built in 1914 to house city offices, police department, a hospital*

Five free walk tours of the "Athens of the West"

What can you say about Oakland? You can say that despite Gertrude Stein's famous sigh, it has proven a surprisingly genial stomping ground for Bohemians, as witness the Oakland transits of Jack London, Bret Harte, and Isadora Duncan. You can say that though it has city blocks as sorrowful as the worst of its reputation, it also has blocks of Victorians to rival San Francisco's, and blocks of art deco to rival Los Angeles', and a three-tiered City Hall built to promote Oakland as the "Athens of the West."

In fact you can hear these things and more said on the free tours offered by the Volunteers for Oakland, a group of 30 guides trained at Laney College in local history and architecture. No reservations are needed. Each tour takes 1½ hours and covers one of five areas:

Old Oakland, the 19th-century hub of the city. Tours meet at 1 P.M. the first and fourth Wednesdays and Saturdays of the month at G. B. Ratto International Grocers, 821 Washington Street.

City Center, the current hub of Oakland. Tours meet at 1 P.M. the second Wednesday and Saturday of the month in the lobby of the City Hall, 1471 Washington Street.

Uptown to Lake Merritt, a walk jeweled with Julia Morgan churches and two Depression-era salutes to show biz, the Fox and Paramount Theaters. Tours meet the third Wednesday and Saturday of the month at 1 P.M. at the Paramount, 2025 Broadway.

Preservation Park, Oakland's enclave of Victorian houses. Tours meet the fifth Wednesday *or* Saturday of the month at the Unitarian Church, 14th and Castro streets.

Chinatown. Tours begin at 10 A.M. the first Saturday of every month, in front of Sun Yat-sen Towers, 801 Franklin Street.

On May 3 the Volunteers will host Oakland Tours Day, when they will give all five tours as well as guided excursions through the Oakland Museum and Oakland Zoo and the Dunsmuir House. For the day's schedule, call (415) 273-3234.

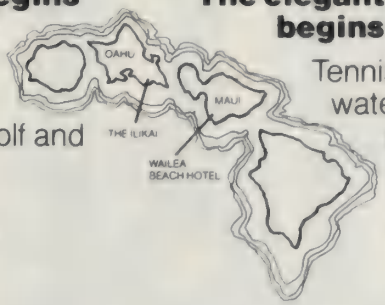
One last thing you can say about Oakland: Madame Stein may have liked it more than she let on. That famous quote ("There is no there there"), say the Volunteers, may reflect only Stein's adult disappointment that her childhood home had been demolished. On another occasion she treated Oakland more gently. A Sunday there, she wrote, "meant good eating and pleasant walking, it meant freedom and the joys of mere existing." With a little luck, your tour may be as rewarding. ▫

Of which Hawaii do you dream?

The jeweled island of Maui begins with the Wailea Beach Hotel.

The peaceful seclusion of a white sand beach, sailing, swimming, shopping, tennis, championship golf and celebrated dining.

Wailea Beach Hotel
MAUI, HAWAII



The elegant excitement of Waikiki begins with the ILikai.

Tennis courts, a galaxy of shops, water sports, bright entertainment, dancing and exceptional moonlight dining.

The ILIKAI

WESTERN INTERNATIONAL HOTELS IN HAWAII

For reservations at the ILikai and Wailea Beach Hotel, call your travel agent or (800) 228-3000.

MEETING THE DEMANDS OF SOCIETY IS NO EXCUSE FOR BUILDING A BORING CAR.

If one accepts the dismal phecies emanating from the autotive community, it appears we destined to suffer a generation of roughly boring automobiles.

Cars so utterly debilitated by etal necessities, safety regulas and anti-pollution paraphernalia t they no longer will be the least interesting to drive.

There is, however, one rather couraging note of optimism.

All this doomsaying neglects ake into account the obsessive demination of the engineers at IW in Munich, Germany to build raordinary automobiles.

Against all odds, the BMW 8i not only satisfies the laws of land and the demands of the gas k, it does so without ever once ating our conviction that exordinary performance is the one onal justification for owning an exsive car.

FEW CARS PERFORMED THIS WELL BEFORE POLLUTION CONTROLS.

Expensive luxury sedans have ver received great kudos for their pacity to perform with efficiency d agility.

Quite the contrary. "Expensive llans," writes Car and Driver magne, "tend to ride like pillows when u cruise them and squeal like pigs en you push them."

A bit caustic perhaps. But, an analysis that makes the performance statistics of the BMW 528i seem all the more remarkable.

Round a particularly hair-raising curve and the legendary BMW suspension system—independent on all four wheels—flexes with a resiliency that makes one feel as if the car were built into the roadway. A sensation that results from highly advanced suspension technology and the virtually perfect integration of man and machine.

Press the accelerator and the 528i's fuel-injected, 2.8-liter, overhead cam engine responds in a manner that can only be described as exhilarating—even by pre-pollution control standards.

Yet, the 528i (with standard transmission) delivers 18 EPA estimated mpg, 30 estimated highway mileage and, based on these figures, an estimated mpg range of 295 miles and a highway range of 492 miles.

(Naturally, our fuel efficiency figures are for comparison purposes only. Your actual mileage and range may vary, depending on speed, weather and trip length. Your actual highway mileage and highway range will most likely be lower.)

And, curious as it may seem, the BMW 528i is the only luxury "sports" sedan in its price class that offers a surgically precise five-speed manual gearbox as standard equipment (automatic is available of course).

LUXURY NEEDN'T BE MERELY A FACADE.

One's appetite for luxury would have to be insatiable indeed to imagine an appointment or convenience lacking in the 528i.

AM/FM stereo cassette, full-power accessories, air conditioning, and a good deal more, are all standard equipment.

Yet each and every facet has been strategically engineered to help eliminate the enormous strains and pressures of driving.

Its seats are anatomically shaped buckets. Its front seats are so thoroughly adjustable that it is all but impossible not to find a comfortable driving position.

All vital controls are within easy reach. The tachometer, speedometer and ancillary instruments are large, well-marked and totally visible.

All in all, in a time of lowered automotive expectations, amidst increasing mediocrity, the engineers at BMW have actually improved the BMW 528i.

If you find the notion of owning such a car more than a little intriguing, we suggest you phone your nearest BMW dealer and arrange for a thorough test drive at your convenience.

THE ULTIMATE DRIVING MACHINE.

BMW MUNICH GERMANY

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KEITH GUNNAR

Baby carrier shouldered *by backpacking mom costs $60. Frame comes with padded hip belt, detachable seat, straps for carrying gear underneath*

Infant sleeping bag *with zipper is sold as a kit for $17. Belt shortens longer bag*

Backpacking with your baby? Here are questions and answers

Small compartment *in divided backpack is just right for stashing baby's extra clothes, shoes, a few toys*

Take a baby backpacking! Even veteran outdoorsmen might quail at the thought. Is it possible to enjoy an overnight backpacking trip with a child under age 2? How do you transport a squirming 10- to 20-pound infant? Who'll tote the extra gear? What about a baby's demanding feeding habits? What are the risks? Is it all really worth the hassle?

These are real concerns. But for active parents who can handle the additional work, there can be a big reward: discovering you can take your baby along.

The right equipment can make your task easier. (We report on gear—much of it newly developed—later in this article.) Intelligent packing can also minimize difficulties (suggestions follow). But long before you load up, careful planning and preparation for contingencies are keys to a pleasant, safe outing.

A gentle wilderness introduction

Before committing your child to a weekend in the wilds, you can see how your baby responds to changes in his diet and sleeping environment by camping out in the back yard or local park. You may decide to scale down your adventure. Choose appropriate destinations within your own limits and those of your baby.

It is critically important that parents be wilderness-wise. Avoid potentially hazardous or exhausting terrain and unpredictable weather. Look for short trails relatively close to home. Don't walk too far away from civilization—a mile or two may be enough.

For coastal Westerners, that might mean the ocean beach, where "trails" are flat. Often in the Northwest you can camp anywhere above high-tide line, so you walk only as far as you wish. Alpine meadows can also offer splendid campsites, but to minimize your elevation gain, look for short trails that start from high mountain roads. Avoid trails where summer heat, blasting winds, rattlesnakes, insects, or other critters are likely to be troublesome.

Adapt your pace to your baby's needs and schedule. Allow plenty of time for rest. Leave a wide margin for the unexpected and be willing to change plans.

Consider hiking with another couple that has a child. It's one way to share babysitting chores, and it can give each set of parents a chance to break away. Or join a family backpacking trip sponsored by a local outdoor club, parks department, or the YMCA. For more ideas, one good reference available in paperback is *Backpacking with Babies and Small Children*, by Goldie Silverman (Signpost Books, 8912 192nd St. S.W., Edmonds, Wash. 98020, 1979; $5.95).

Safety—consider your baby's limits

Children are generally more sensitive to heat, cold, sunshine, and the effects of higher altitudes than their parents are. Pack a sunbonnet and use a sunscreen cream. Some parents rig a lightweight umbrella over the baby carrier for shade and rain protection. If insects are a problem, apply a repellent that agrees with your child's skin.

Hypothermia can be a serious threat to adults or children. When it's chilly, infants lounging in carriers need to be bundled up. If it's hot, make sure infants aren't overdressed and that they drink enough.

A complete first-aid kit is essential. Con-

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sult your pediatrician for suggestion and other health questions.

Special gear for carrying baby

Much has changed since the days whe a few hardy hikers lashed their baby car seat to a pack-frame. Dozens o lightweight baby carriers are now on th market, and real improvements in carry ing comfort have been made: paddin for leg holes, shoulder straps, head rests adjustable seats that accommodate grow ing children; and cooler, lighter mate rials. There are three basic kinds of car riers available.

Soft carriers ($12 to $48) provide neces sary head support for very young babies Their big advantage for backpacking i that with the child snuggled against you chest, you can also carry a rucksack o small pack on your back. The best of th soft carriers can be adjusted for childre up to 30 or 40 pounds, and include well designed cargo pockets. While some in fants like being close, others seem to fin soft carriers too confining. And thes body-hugging fabric carriers can be quit warm in hot weather. Some parents com plain that without a supporting frame these carriers put too much weight o their shoulders and neck.

Lightweight frame carriers ($17 to $30 can be used after a baby can hold up hi head. Those designed for shopping trip or short outings can often be converte for backpacking by adding a padded hi belt (from about $12), which stabilize the carrier and shifts weight off you shoulders to your hips. Many frame car riers have folding stands and can doubl as feeding chairs in the field.

Heavy-duty backpack frames with bab seat attachment are recommended fo serious backpackers. They come wit padded hip belts, usually adjust to fi both parents, and are big enough to las on extra camping gear. The baby face backwards, which also shifts the cente of gravity away from your back, creatin a feeling of being "pulled" from behind and can cause balance problems. Afte your child can walk, you can remove th baby seat, add a packbag, and use th new assembly as a conventional back pack. These rigs are more expensive. Th best we've found, by Antelope Campin Equipment (of Cupertino, California) costs about $60 for frame and carrier $25 more for the packbag.

To save money, you could remove th bag from a frame backpack you alread own and securely lash a lightweight bab carrier to the frame, using sturdy nylo cord. (If possible, remove the shoulde straps from the baby carrier first.)

Besides a carrier, you'll also need a larg backpack for another adult, who mus be strong enough to haul almost every thing that you'll need for the weekend (usually 40 to 60 pounds). This second

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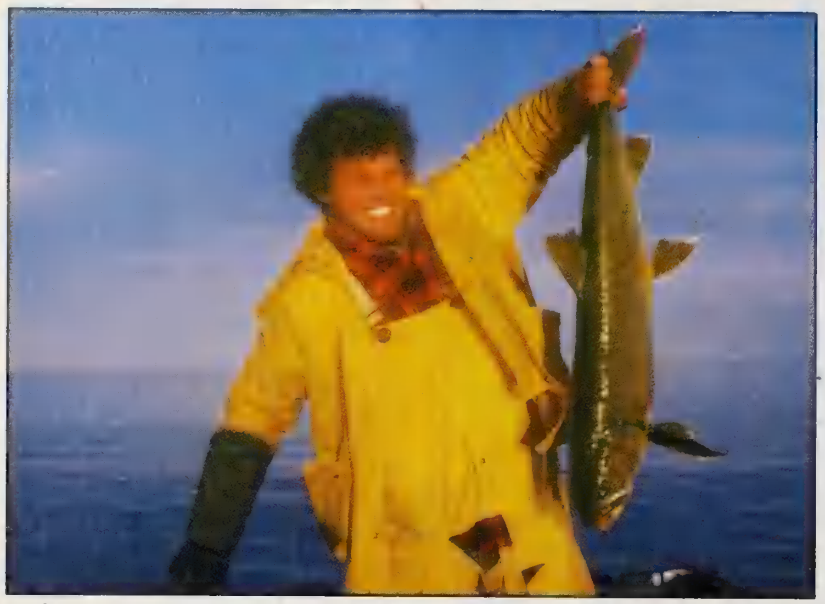

North West Territories — Canada West

HERE'S THE CATCH

Look at the size of the trout. But would you expect less from a country the size of Canada? Come on up. Your catch is waiting.

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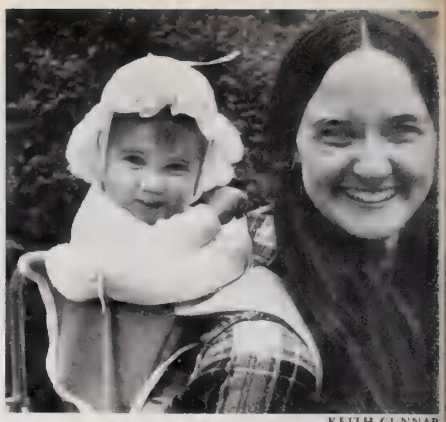

KEITH GUNNAR

Padded "napper" *costs $6.50. It fits over metal of carrier to cushion baby's face and provides a softer perch for snoozing*

pack should have several exterior lash points for strapping on extra gear.

Sleeping bags, harnesses, nappers

Infant sleeping bags in kit form are sold by Frostline and Countryways. The Frostline bag (about $17) is insulated with Polarguard, weighs 1 pound and is 35 inches long. Countryways (of Minnetonka, Minnesota) offers a zippered, washable 44-inch bag beginning at $22.

A down jacket zipped up with sleeves pulled in can make a dandy infant sleeping bag. If parents own two zip-together bags, there's probably room for a baby in between. Some small comforters ($20 and up in department stores) can also be zipped into a bag shape. Wherever your baby sleeps, make sure he's well diapered, wears waterproof pants, and is dressed so that, even if he slips out of the bag, he'll stay reasonably warm.

Baby harnesses ($6 and up) can be a handy addition—they keep active children from vaulting out of their carriers. They may be hard to find: try Mother Care, Box 228, Parsippany, N.J. 07054.

If you have an older, unpadded frame carrier, you can improve your infant's comfort by adding a "napper" sold by Gerico (pictured above); its padding prevents a snoozing infant from bumping his head on a bare metal frame.

Packing for three

First make a check list of infant supplies. Then pack so you can get at the baby's things in a hurry. If you have a compartmentalized backpack, reserve at least one section for your child's duffel. Take extra changes of clothing, including sweaters, warm hats and mitts, shoes and socks, a waterproof windbreaker for rain protection, and sleepers. Salt away a few small toys (also try tying a soft toy to the carrier frame for your baby's on-the-trail amusement).

Besides controlling weight, you must reduce bulk. You may choose to replace unwieldy open-cell foam sleeping pads with compact inflatable mattresses. And

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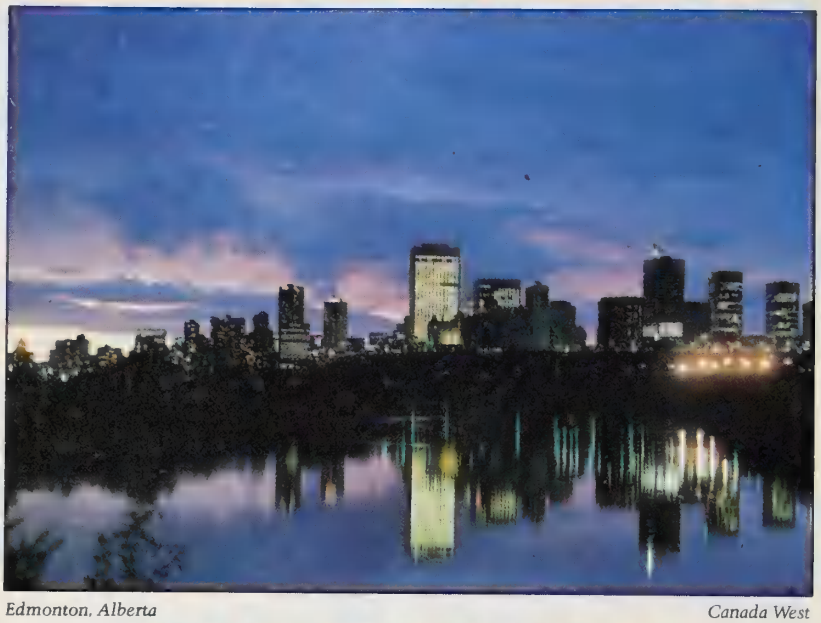

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DON NORMARK

Plastic bottle, *food grinder, cup, spoon are lightweight choices. Powdered formula, fruit juice in cans can be mixed in camp*

you might get larger sleeping bag stu sacks to carry some clothing at eithe end, saving space in your pack.

Feeding a baby in the wilds

Infants who are breast-fed need no extr provisions. For babies on other feedin programs, consider packing powdere or concentrated liquid formula or soy based milk substitutes which you mi in the field. Milk and fruit juices mixe from powdered concentrates are goo choices for many infants. Remember t take extra plastic bottles and nipples.

If you suspect the purity of your wate supply, boil it for at least 20 minutes o use a chemical purification tablet or pur fier that's safe for your child.

For children on solid foods, you ca pack along a lightweight, compact plasti food grinder (about $6 and up) to grin some of your cooked backpackin foods. Small boxes of instant dehydrate cereal are handy.

After about a year, most children ca begin eating some adult fare, includin dried fruits and cheese. Pack a few bib a plastic spoon or two, and a cup.

Diaper dilemma

No way around it—diapering an infan demands deliberate time-outs, and dia pers add bulk and weight. Plastic sheathed disposable diapers are one wa to cope: they're lighter than cloth dia pers, change quickly, and can be throw away after the trip. Though you can fit few fresh diapers into your pack, ther are handier places: in a stuff bag at tached to the packframe or in the en of a sleeping bag's stuff sack.

Put soiled diapers in a large, strong plas tic bag and pack them out. Never bur diapers (plastic doesn't degrade); don try to burn them. Premoistened baby care towelettes are indispensable fo swabbing up.

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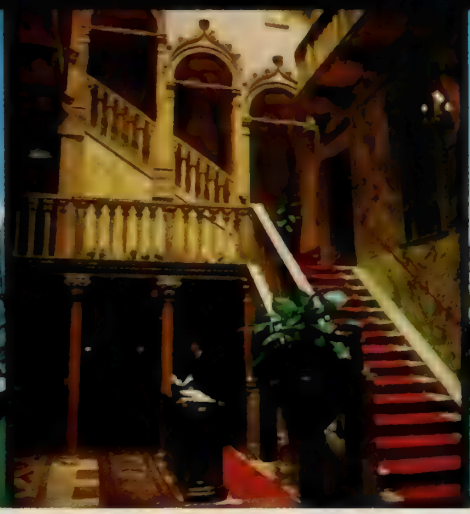

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DAVID STUBBS

Drafting *the leader, cyclists whoosh around banked trac wheels just inches apart*

America's best athletes in action

American athletes are going ahead with preparations for some sort of Olympic-caliber competition this summer. At our press time, it remained to be seen what might take place. But the trials are scheduled to go on.

For sports fans in the West, five different Olympic trials offer the chance to see topnotch athletes compete. The most popular events, track and field, attract about 15,000 spectators. Other sports—track cycling, dressage, judo, and shooting—are much less well attended but also have American athletes who are among the best in the world.

Cycling (banked-track events). San Diego Velodrome, May 5 through 9.

Bicycling track events are held on a high-banked 333-meter oval called a velodrome. Racers compete in a 1,000-meter time trial (man against clock), 1,000-meter sprint (two racers try to outmaneuver each other to be in the favored "drafting" position—behind the other rider, conserving energy, until t final sprint to the finish), 4,000-me individual pursuit (two riders start opposite sides of track and try to cat each other or get a better time), a 4,000-meter team pursuit.

Competition runs each evening from to 9. Tickets cost $2. Time trials are May 5 (free admission; this is not mu of a spectator event, whereas the pu suits and sprints are full of action).

The velodrome is at 2221 Morley Fi Drive in the northeast corner of Balb Park. There's ample free parking.

Call the track at (714) 298-1570 more information.

Dressage. Flintridge Riding Club, Cañada Flintridge (near Pasadena), C ifornia, May 10 and 11.

In dressage, riders use subtle hand a leg signals—and almost imperceptil shifts of their weight—to take a ho through graceful changes of directi Rider and horse whirl, run, trot, st

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And I hope that good-looking singer is back to entertain us. I could listen to him sing "Misty" all night. But then all the entertainers got rousing applause.

You know, we've been on a lot of vacations. All over the world. But we've never been on anything like this cruise. We just want more.

Now the only thing we have to decide is whether to spend next year's two-week vacation aboard Sun Viking or Nordic Prince. Some decision!

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smoothly—nothing is abrupt, everyth rhythmic.

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The riding club is at 4625 Oak Gr Drive, adjacent to Jet Propulsion La ratory. To get there from Pasadena, the Foothill Freeway (Interstate 2 northwest to the Berkshire/Oak Gr exit. Go right on Berkshire Place to Grove; turn left. There's free park at Gate 3 at the club.

For more information, call the club (213) 790-1233.

Judo. Wasson High School Gymnasi Colorado Springs, Colorado, May 17

The tatamis (wrestling mats) will thumping as the best in the nation ga for this martial arts trial. The school is at 2115 Afton Way. At press time, the events schedule was firm. For more information, call Maruyama at (303) 472-2724.

Shooting. Black Canyon Shoo Range, Black Canyon (near Phoen Arizona, June 10 through 18.

The steadiest hands in the nation gather in Arizona for pistol and competition. In the rifle events, the be "English match" shooting (60 s from a prone position) and a three- sition event (prone, kneeling, standi In rapid-fire pistol shooting, marksm must hit 5 targets in 4 seconds.

Competition starts at 8 every day lasts until early afternoon. Admissio free. Spectators stand or sit on ground (bring a blanket).

To get there, take Interstate 17 ab 26 miles north of Phoenix. Look for highway signs that mark the range exit at Carefree Highway.

For more information, call the rang (602) 582-9955.

Track and field. University of Ore Hayward Field, Eugene, June through 29 (except June 26).

Over 500 male and female athletes expected to compete in discus, shot high jump, javelin, high and low h dles, sprints, relays, distance runs, more. Bring a stopwatch and raingea

Tickets cost $9, $10, and $11. Write Ticket Office, MacArthur Court, U versity of Oregon, Eugene 97403, or (503) 686-4461 for additional ticket formation.

Hayward Field is at the corner of 1 and Agate streets. From Interstate 5, low signs to the campus. Plan to ar at least one hour early to find str parking close to the stadium.

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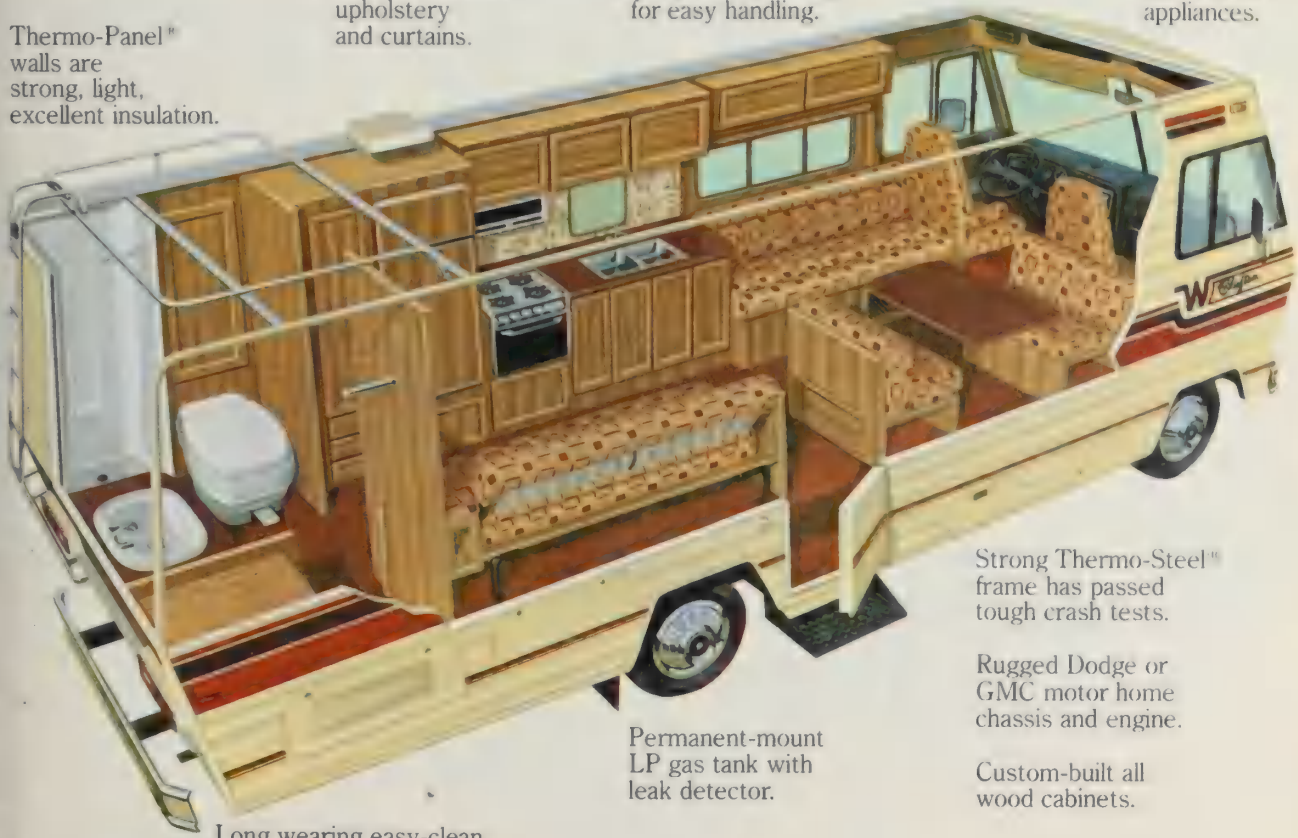

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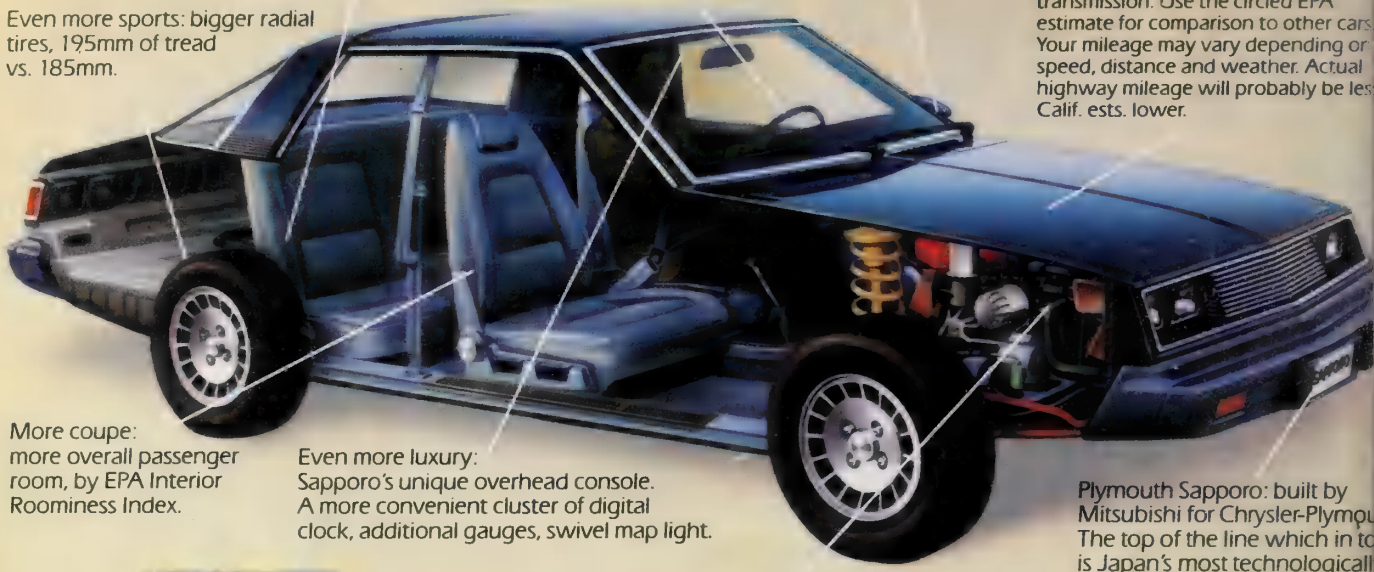

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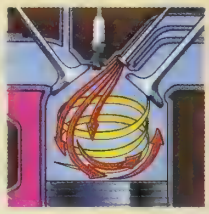

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GREGG MANCUSO

t two stories tall, *restored split-level nted Desert Inn/Museum appears her. Murals inside the 28-room lding depict Hopi village life*

ainted Desert Inn now a museum

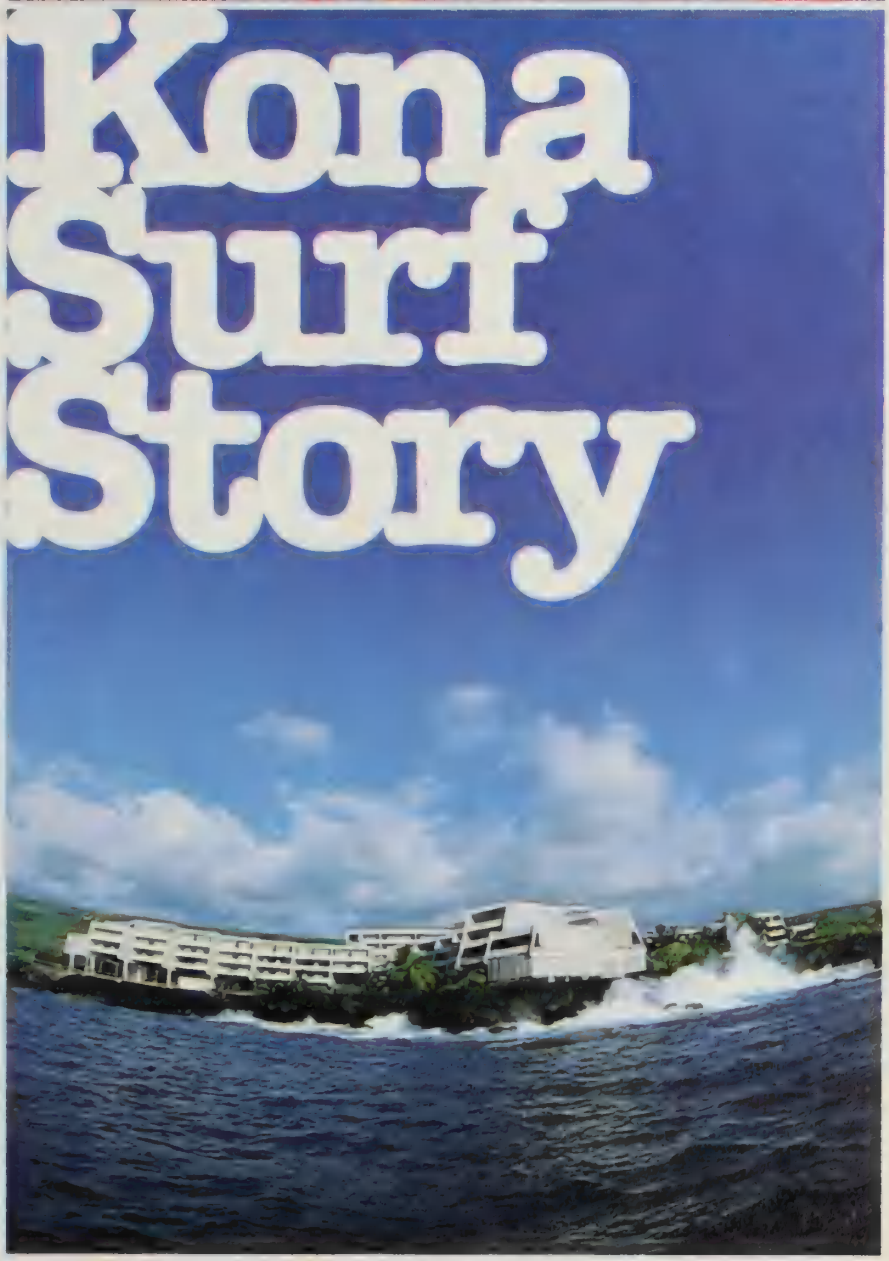
e **splendid split-level** adobe-style lding above is now a museum in rified Forest National Park in north- Arizona—thanks to a joint commu- -park effort that has saved it from olition.

e fine exposed beam ceilings, hand- ved corbels, narrow passageways, and tresses are tributes to the Civilian nservation Corps, who worked from 6 to 1940 transforming an old hip- fed stone trading post. The park's oration of all 28 rooms is still years but four rooms in the Painted Des- Inn/Museum are open and worth a k if you're in the area.

special interest is a series of murals Hopi culture painted in 1948 by Fred otie, dean of Hopi Indian artists, n the building was a Fred Harvey and restaurant.

e museum, open daily from 8:30 to ithout charge, June through August, miles north of the Petrified Forest ional Park/Painted Desert visitor ter, just off Interstate 40. □

Kona Surf Story



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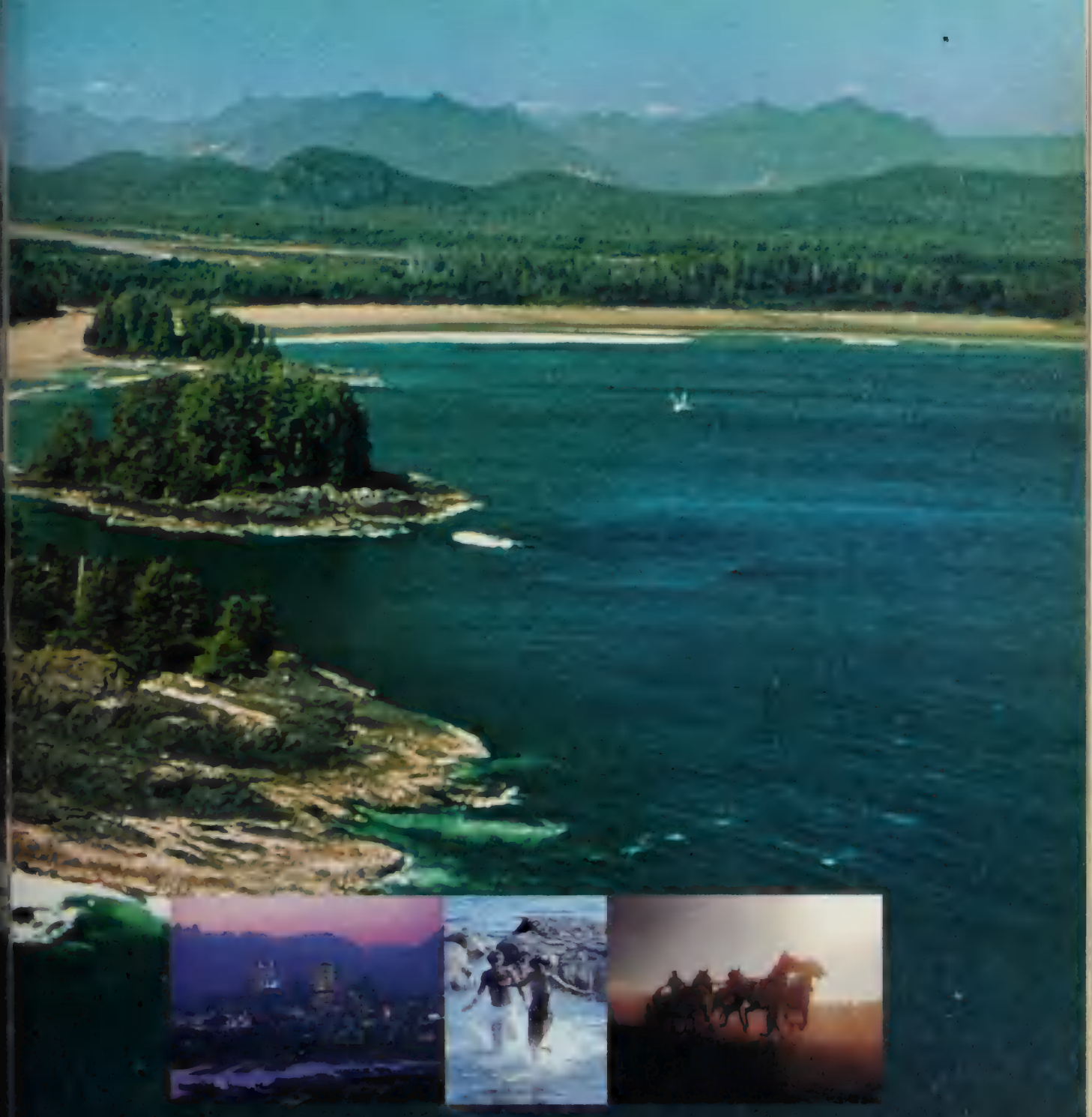

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To Disneyland without your car

Does everyone drive to Disneyland? Th sea of cars outside the entrance show that most visitors do. Even so, there ar many forms of transportation besides th car that will get you to the park, so w present a summary of what's available.

By air

You can fly into John Wayne Airpor Orange County (in Santa Ana), fro Denver, Las Vegas, Phoenix, Salt Lak City, and Tucson on Hughes Airwest; o from Fresno, Monterey, Portland, Ren Sacramento, and the San Francisco Ba Area on Air California. For flight de tails, call your travel agent or an airlin representative.

Airport buses, hotel trams

Airport Service, Inc., which is based i Orange County, carries passengers b bus between the Los Angeles, Ontari Long Beach, or Orange County airpor and the Disneyland Hotel or Gran Hotel in Anaheim.

The trip from Los Angeles Internation takes about an hour and costs $4.35 f adults, $2.20 for ages 5 to 11 one wa There are 29 round trips daily betwee LAX and the two Anaheim hotels, fro 5:05 A.M. to 2:20 A.M. Seventeen roun trips are operated between the Orang County airport and the hotels, 6:20 A.M to 11:50 P.M. One-way fare is $1.8 for adults and 95 cents for ages 5 to 1 For more information, telephone (71 776-9210.

From the Disneyland Hotel, you ca take a free tram to the park's main gat it runs every 10 minutes, from a hal hour before opening to an hour aft closing. Or you can ride the monorail the Tomorrowland station in the par Purchase a ticket book at the monora station and then use one of those ticke for the ride (be sure to ask for a free e change ticket if you plan to return to t hotel on the monorail).

Train service

Amtrak's *San Diegan* makes six rou trips daily between Los Angeles and S Diego; the closest stop to Disneyland Fullerton. The first train leaves Los A geles at 8:30 A.M. daily and the last tra from Fullerton departs at 9 P.M. Roun trip fare from Los Angeles to Fullert is $5 for adults, $2.50 for children und

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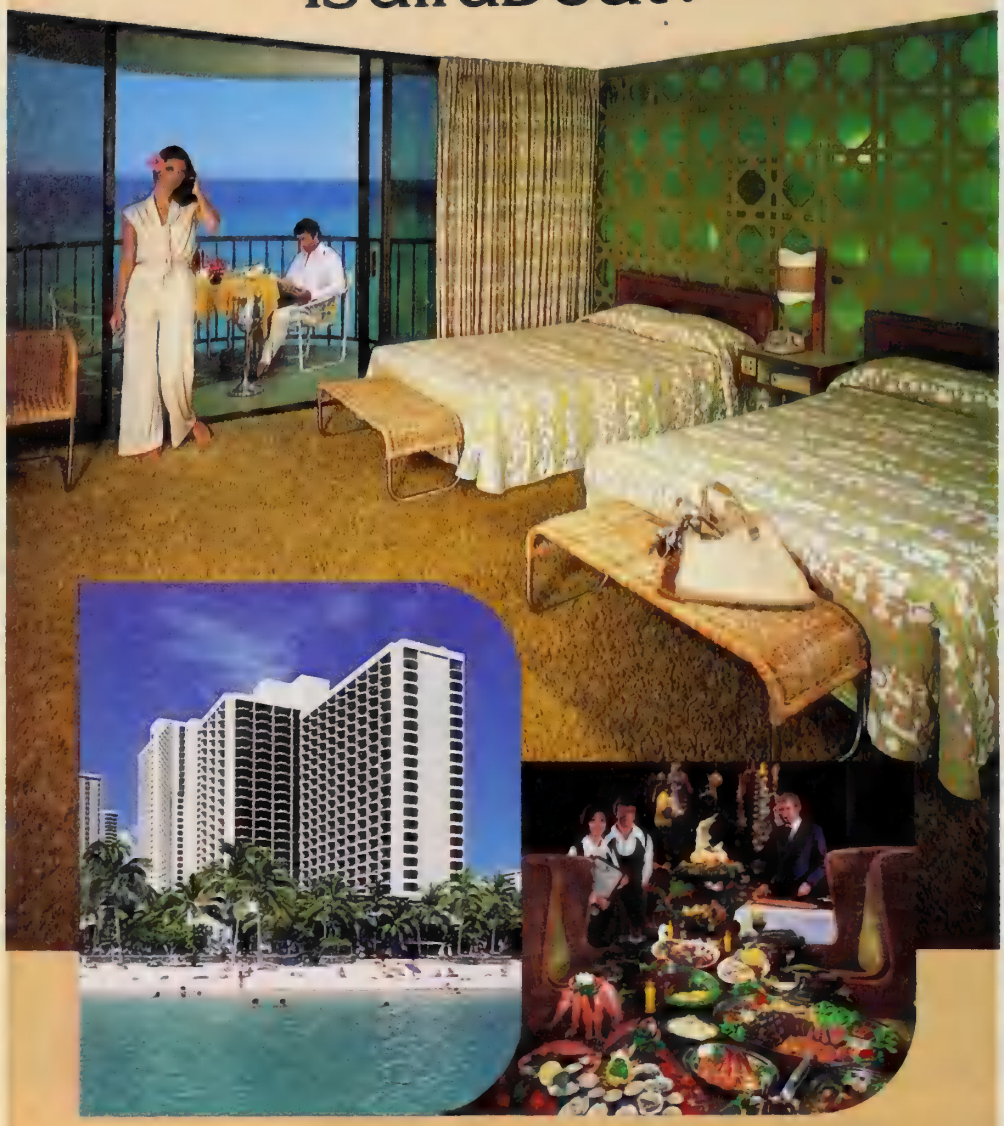

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12. The ride takes about 35 minutes. Re servations are not accepted, so it's advis able to arrive about an hour before trai time, especially on weekends. For mor information, telephone your closest Am trak office or call (213) 624-0171 in L Angeles.

From the Amtrak station in Fullerto walk about 1½ blocks to the intersectio of Harbor Boulevard and Commo wealth Avenue, where an Orange Count Transit District (OCTD) bus, route 41 43, stops every 15 minutes on weekday and every 20 to 30 minutes on weekend on its way to the Disneyland Hotel. Th fare is 50 cents (exact change); senio citizens and children 6 years and und can ride free.

Bus: local, long-distance, "fun"

OCTD route 41/43 will also deliver yo to the Disneyland Hotel from Newpo Beach. For other bus routes and sche ules in Orange County, telephone (71 636-RIDE.

From the downtown bus depot at Sixt and Main streets in Los Angeles, Soutl ern California Rapid Transit Distri (RTD) lines 800 and 802 deliver passe gers to the West Street side of the par about 200 yards from the main entranc It's about a 1½-hour ride. Line 800 ru hourly starting at 5:10 A.M. Line 80 which also stops at Knott's Berry Far in Buena Park, runs at half-hour inte vals with line 800, starting at 5:40. Th last bus leaves Disneyland at 9:35 P.M One-way fare is $1.45 (children under ride free).

Line 860 from Long Beach or Riversi also stops at the park. If you live outsi Los Angeles, Orange, Ventura, Rive side, or San Bernardino counties, pu chase a tourist pass ($1 a day, minimu of three days) for unlimited RTD trave For more information, call (213) 62 4455 (this 24-hour line is least busy b fore 8 A.M. or after 10 P.M.); or wri RTD, Los Angeles 90013.

Greyhound and Continental Trailwa serve Orange County from places outsi the Los Angeles area.

Gray Line Tours offers guided bus tou of Disneyland from several Los Angel locations. Telephone (213) 481-2121 f information and reservations.

Locally, the Funbus travels between A aheim hotels and motels and Disneylar every 35 minutes, from about a hal hour before the park opens until abo 10 minutes after it closes. Bus schedul are available in hotel lobbies. The fare 35 cents per person (soon to be 50 cent or $1 for an all-day pass with unlimit on-and-off privileges in the Anahei area. This bus will also take you Buena Park's amusement attractions. A all-day pass in that area is $3.50. F more information about the Funbu telephone (714) 635-1390.

SUNS

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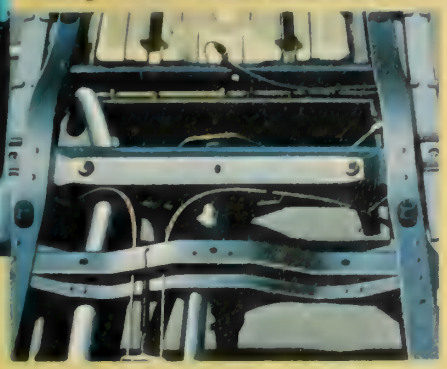

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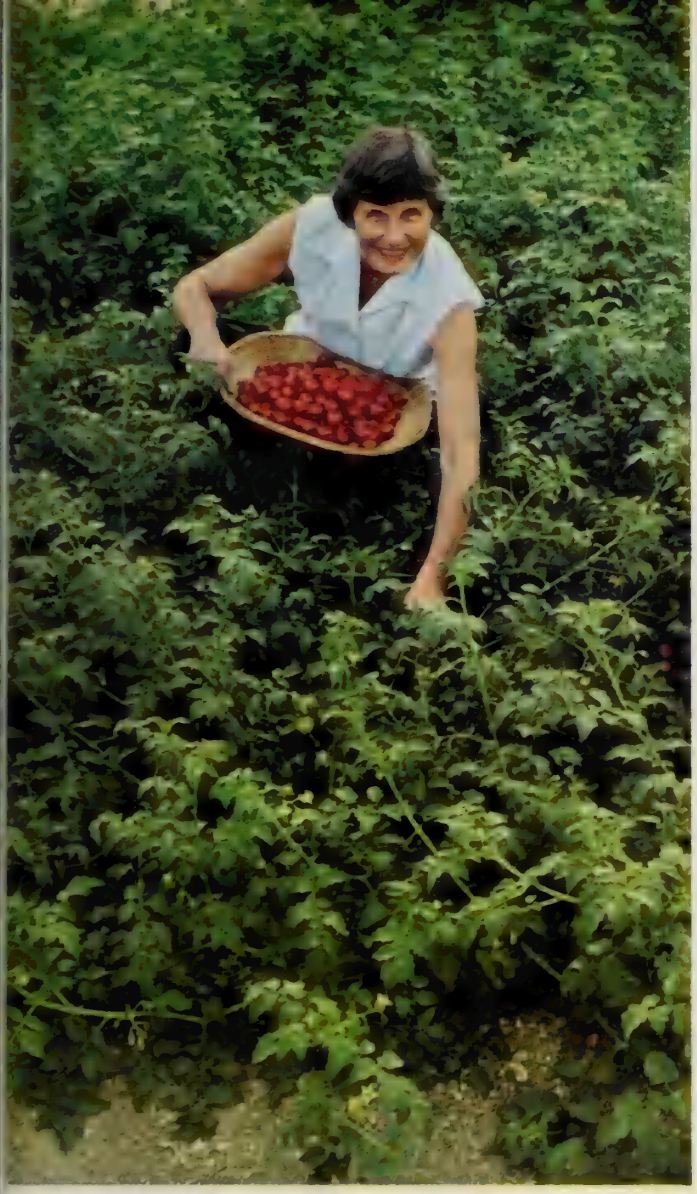
—Meryllene and Roland Smith, Davis, Calif.

"Nothing like this ever happened before . . . my Better Boy is taller than the house"
—Selmer Ostlie, Arcadia, Calif.

Which tomatoes are best? Which tomatoes are losers?

Sunset readers by the hundreds let us in on secrets



"There's a sea of cherry tomatoes in my yard. I started with two plants five years ago. They keep reseeding"
—Mrs. Paul Miller, Los Altos Hills, Calif.

"We've given away 117 pounds, canned 22 pints. We're eating tomatoes twice a day"
—Alice and Henry Wagner, Rialto, Calif.

"Oddballs are my favorites . . . orange Jubilee, Red and Yellow Pear"
—Sonja Floyd, Tucson, Arizona

Choosing a tomato can be a bewildering experience. With hundreds of different varieties available, the home gardener is often in a dilemma—which tomato is really the best?

To help unravel this confusion, we asked *Sunset* readers last summer to send a postcard to our "Great Tomato Search" and tell us: (1) which tomato variety was the "best" and what was good about it; and (2) which tomato variety was the "biggest loser," and why.

Altogether, 449 readers from all over the West wrote in and appraised 135 different tomato varieties. They shared their tomato-growing triumphs as well as their failures.

Some postcards told us of success in the face of adversity: "With aphids on the beans and mildew on the roses, I was amazed my Pixie and Patio produced so well." Some were smug: "Early Girl grew well for me, but so does everything." And many were thrilled: "Early Cascade—wow!" "Superstar made the best-tasting chili sauce in the last 10 years." "Better Boy is our hero."

Others left no doubt which tomato they wouldn't plant again: "Ace tomatoes are yucky—even the ground squirrels pass them up." "Pearson has a mealy, dreary flavor." "Beefmaster is a dud." "Big Girl gave me one miserable little tomato."

Sometimes there was disagreement: "Floramerica was terrific—it was so

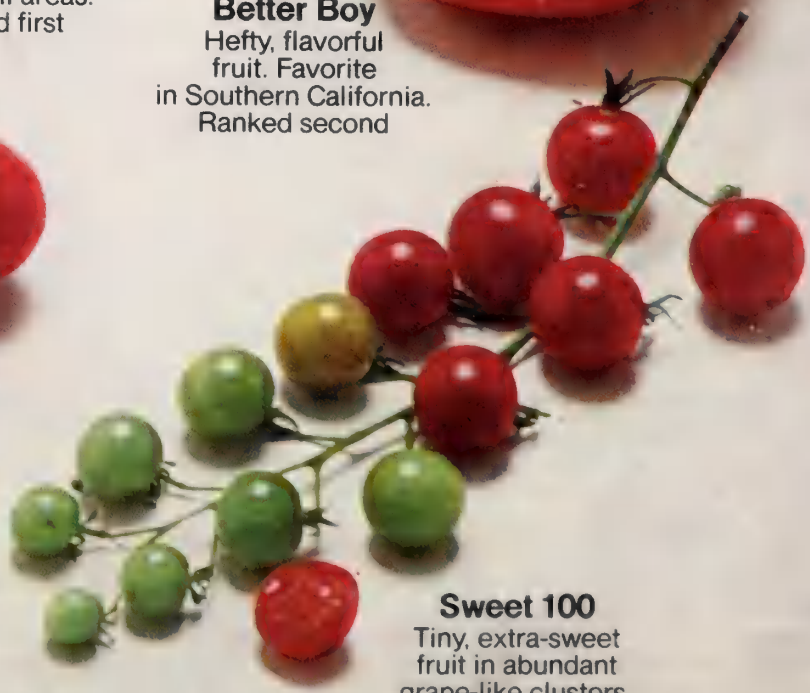
The five winners

Floramerica
Large, meaty fruit with delicate, mild taste.
Ranked fourth

Early Girl
Zesty taste, medium-size fruit. Bears early in all areas.
Ranked first

Better Boy
Hefty, flavorful fruit. Favorite in Southern California.
Ranked second

Red Cherry
Bite-size, 1-inch juicy fruit with mildly sweet flavor.
Ranked third



Sweet 100
Tiny, extra-sweet fruit in abundant grape-like clusters.
Ranked fifth

loaded with delicious fruit it broke down the cages." "Floramerica tasted like store-bought *winter* tomatoes. The vine was short-lived, thank goodness."

Once the smoke cleared and votes were tallied, five tomatoes emerged as top winners. The "beefsteak-type" tomatoes earned the dubious distinction of being the least favorite in Western gardens (see Beefsteak comments starting on page 99).

Information on these six tomatoes, plus nine others that generated the most reader response, is summarized in the chart on page 99.

"Early Girl is my idea of the perfect tomato flavor"

What makes a tomato great? At the top on the list for most reporters were taste and texture: "Better Boy is smooth, fleshy—not all seeds and juice—with excellent flavor." "Early Girl is my idea of the perfect tomato flavor!" "Cherry tomatoes have a super tomato taste." "Sweet 100s are unbelievably sweet."

Taste is highly subjective, however, and even the five winning tomatoes represent a considerable range—from the mild Floramerica to the honey-like Sweet 100.

Sometimes it is difficult for one tomato fan to understand another's preferences. One letter describing a neighborhood taste test told of a participant who didn't agree with the group: "My neighbor was the only exception to the consensus. She dislikes the zesty acid taste of tomatoes—she prefers the bland taste of Big Girl and Floramerica."

"We have enough fruit for the ground squirrels . . . "

The second essential ingredient for a Great Tomato, according to most of our respondents, was a reliable, bountiful harvest. Most took pride in having enough tomatoes to share.

"We have enough fruit for ourselves and many of our neighbors, as well as the ground squirrels, gophers, and snails."

"I must have harvested 10 bushels by now, and they're still coming on strong. The neighbors close their blinds and lock the doors when they see me coming with a sackful."

Many respondents demonstrated a fascination with numbers: "Nine plants produced 445 tomatoes." "We made 32 pints of marinara sauce, canned 26 pints, and fed three adults." "There were 80 pounds of tomatoes on some bushes." "We averaged 40 pounds per plant."

Often, record harvests were associated with extra-large plants: "Better Boy outgrew its diseases—with foliage 12 feet high and 7 feet wide." "Big Boy is fantastic! It's 14 feet tall, over 4½ feet across." (Although production is excellent for many "determinate" tomatoes—bushier types that stop growing when they reach 3 to 5 feet—the big "indeterminates" tend to produce larger crops over a longer period.)

BILL ROSS

"My Better Boy tomato plant is lifting the roof off the greenhouse"

—Robert Mitchell, Arcadia, Calif.

Robert Mitchell of Arcadia, California, was particularly impressed by the performance of a "left-over" Better Boy plant that he stuck in the ground inside his greenhouse and gave regular fertilizing and watering. The plant developed into a prolific monster that lifted the roof (a neighbor, Oris Stedman, is admiring the plant in photograph above).

"Late tomatoes are no good unless you want green ones"

Earliness was the third main feature of an ideal tomato, especially for gardeners who live in areas with a short growing season or chilly summer: "Any slow-bearing plant is a loser for me—I want action out there!" "Late tomatoes are no good unless you want green ones."

Some reporters were disappointed, however, when even their best-performing tomatoes failed to live up to the promised maturity dates: "None of my tomatoes ripen before September no matter what." "Seed catalogs say 60 to 70 days but tomatoes in the Puget Sound area take 90 days."

Maturity dates are only rough averages of the time between transplanting and the first ripe fruit; they're based on good growing conditions. Days of cloudy, cold, or foggy weather can delay maturation significantly. Or high temperatures in desert areas can bring tomato fruit set to a halt in midsummer. And if seedlings are spindly and weak when set out, they will probably be poky.

"Better Boy is the only variety that didn't die on us . . . "

The fourth element cited by many readers was resistance to common tomato maladies such as verticillium wilt, fusarium wilt, and nematodes. A few noted they never chose a tomato unless it was labeled VFN since this indicates some resistance to the big three. (See pages 99

NORMAN A. PLATE

1 • *Push up seedling by pressing against bottom of sixpack. Gently lift out plant*

2 • *Loosen matted roots. Strip off weak, wilted leaves from lower part of stem*

3 • *Plant deep. Fill hole to first set of leaves. Stem of this plant will be buried 3 inches*

4 • *Add support at planting time. Use 80 inches of 6-inch mesh to make cage. Tie to 4-foot stakes*

to 101 for further discussion of these and other problems.)

How to grow tomatoes—the secrets of success

Generally, tomatoes are not fussy and can get by on minimum care.

The plants ask only that you don't leave them unprotected early in the season if there is chance of frost (cover with paper caps or other devices). Also, don't drown them with over-attentive watering. Constantly soggy feet can spell disaster. Avoid frequent light sprinklings, since this promotes shallow roots (to encourage a hefty root system, give plants deep soakings once they are established).

DON NORMARK

"All I did was tickle them a little, and each blossom set"

—Ed Perkins, West Covina, Calif.

Choose young, sturdy seedlings, and plant them in a sunny spot in early spring. Usually this means February or mid-March in low and intermediate desert areas; April or May on the California coast and interior valleys; May or early June in the Pacific Northwest, high desert, and in areas that have some snow each winter.

Unlike most other plants, tomato seedlings prefer being planted deep, as shown in the photograph above (step number 3). Roots will sprout from the buried part of the stem and produce a stronger plant. Space the seedlings 3 to 4 feet apart.

If you have heavy clay soil or very sandy soil, it is a good idea to dig in plenty of organic matter before planting. Add compost, peat moss, or ground bark at the rate of 1 part organic matter to 2 parts soil.

Many gardeners reported outstanding results when they turned over the soil in the planting bed to a depth of 18 inches, but less energetic gardeners found digging down 6 to 8 inches was enough.

Since tomatoes are fast growers and gobble up nutrients, it pays to enrich the soil with fertilizer at the time of planting. Incorporate a low-nitrogen fertilizer such as 5-10-10 or 6-12-6 (sometimes sold as "tomato food") according to package instructions. The plants will appreciate at least one more feeding after the fruit starts to develop.

Gardeners in the cool Pacific Northwest indicated that placing an old automobile tire around plants dramatically increased the speed of maturity. A mulch of black plastic also seemed to help in a few cases.

Desert gardeners noted the importance of shading plants when sizzling summer temperatures arrive. You can use nursery shadecloth draped over stakes, or construct a simple wooden framework to support a lath or bamboo shade. In the desert, tomatoes seemed to have fewer sunscald problems if allowed to sprawl over the ground.

"When the tomatoes push out of their cages, I hook them with a piece of wire"

—Lester Brubaker

DARROW M. WATT

Most gardeners in other areas preferred to support their tomatoes on stakes or in cages. This keeps them neat and prevents rotting of fruit in contact with the soil. If you use stakes, choose sturdy ones at

Sunset readers' tomato report card

	How big?*	Fruit matures when?	Inbred resistance?**	What's so good or bad about this tomato, according to Sunset readers?
ACE	Det.	Late (80 days)	Varies	Ace is an old-time name in the West. Hybrid Ace VFN, Ace 55 VF, Royal Ace VF, Cal-Ace VF generally available. Can produce prolific crop of big, tasty, meaty fruit, but not always consistent. Sometimes crop is small, fruit doesn't ripen.
BEEFSTEAK	Ind.	Late (90 days)	None	Huge flavorful fruit (to 2 lbs.). Often fails to set crop due to blossom drop, or fruit is misshapen. Beefmaster, most other late "beefsteak" types frequently poor risks; need extra-long season (Bush Beefsteak, Prime Beefsteak somewhat speedier).
BETTER BOY	Ind.	Midseason (72 days)	VFN	Large fruit is meaty, juicy, excellent for slicing, very flavorful. Rambunctious plant requires sturdy support. Outstanding production over long season. Tops in Southern California. Stands up to smog.
BURPEE BIG BOY	Ind.	Late (78 days)	None	Fruit has thick walls, few seeds, very mild flavor (some find it bland). Tomatoes often over 12 oz. Tricky in many areas due to lack of disease resistance and slow maturation. Most common complaint: low production.
BURPEE BIG GIRL	Ind.	Late (78 days)	VF	Mild-tasting fruit is large, fleshy. Plant grows vigorously with plenty of leaf cover. Similar to Burpee Big Boy, except with some disease resistance. May produce only a scanty crop before season ends.
EARLY GIRL	Ind.	Early (62 days)	V	Most successful tomato in wide range of climate conditions. Medium to small fruits (3 to 4 oz.) have zippy flavor, are produced in great abundance over long season. Crop is consistently early in most areas.
EARLY PAK 7	Det.	Late (78 days)	None	Bushy plant produces medium-size meaty fruit. Continues to set fruit in spite of heat. Some gardeners reported undersized tomatoes. Definitely not early, regardless of name. Plant is compact. Mixed reviews on flavor.
FLOR-AMERICA	Det.	Midseason (75 days)	VF	Heavy producer with large solid fruit (small seed cavities). Medium-size plant needs support. Flavor very mild. Some thought flavor, production did not live up to hoopla of All-America award.
I.P.B.	Det.	Early (60 days)	None	Medium-small fruit on compact plant. Triumphs over cold, short season. Flavor fair to good, skin sometimes tough, but it's red. Seed available: 4-H Club, Box 4-H, Puyallup, Wash. 98371; Mountain Seed, Rt. 1, Box 271, Moscow, Idaho 83843.
PATIO	Det.	Midseason (70 days)	F	Small fruits (2 inches) borne on bushy small plant 2 to 2½ feet tall. Excellent for containers. Support with short stakes. Does not show great stamina—may succumb to disease or produce poorly.
PEARSON	Det.	Late (90 days)	Varies	Pearson, a venerable tomato name, includes Pearson VFN 8, Pearson Improved VF, and Pearson A-1 Improved (lacks disease resistance). Tasty, medium to large fruit on medium-size plants. Need long season; not always reliable producers.
PIXIE	Det.	Early (60 days)	None	Compact, attractive plant remains under 2 feet high, is good choice for containers. Best with some support. Moderate to heavy crops of small (1¾ inch) flavorful fruit. Fast enough for areas with short season.
RED CHERRY	Ind.	Midseason (72 days)	None	Vigorous plant produces heavy crop of 1-inch juicy fruit with good, medium-sweet flavor. Let enormous vines sprawl or provide sturdy support. Easy to grow; keeps producing in spite of adverse conditions.
SWEET 100	Ind.	Midseason (65 days)	None	Exceptionally sweet, tiny (less than 1 inch) fruits excellent for snacking. Produced by the hundreds. Plant is rank grower, needs support. Good choice for desert areas. Fruits may split if left on vine too long.
WILLAM-ETTE	Det.	Midseason (67 days)	None	Favorite in Willamette Valley. Produces reliable crop of medium-size tasty fruit on moderate-size plant. Good production in spite of "false springs, late chills, damp or dry summers."

*Det. (determinate): plants are bushy, reach only moderate height (3 to 5 feet); harvest time is short, since all fruit ripens at about the same time.
Ind. (indeterminate): plants are more vine-like, can reach 6 to 14 feet; harvest time is long, since fruit and flowers continue to develop as plants grow.

**V: resistant to verticillium wilt
F: resistant to fusarium wilt
N: resistant to nematodes

least 1 inch thick and 6 feet high; hammer into the ground about 1 foot from plants. Secure tomato vines with strips of cloth or other soft ties to avoid damaging stems.

You can make a tomato cage from 6-inch-mesh concrete-reinforcing wire 7 feet wide (available at construction supply stores), or use "tomato cage" wire available at many nurseries. This lightweight wire is easier to cut, and its 4-foot width makes it perfect for surrounding determinate tomatoes.

For taller plants, add another 2-foot cylinder of wire to bring the height up to 6 feet (see step 4 on opposite page). To make this extra cylinder, cut standard 4-foot-wide wire in half. Leave prongs of wire protruding from the bottom of the small cylinder to secure the cylinders together (twist these prongs around the vertical wires in the lower cage).

"My tomatoes are a fiasco! All the blossoms dropped off . . ."

Although most gardeners find growing tomatoes a snap, choosing the wrong variety can lead to disaster. In our Great Tomato Search, most complaints were hurled against the late-ripening varieties such as Beefmaster, Beefsteak (Crimson Cushion), Bragger, and Ponderosa.

Many of the disappointed gardeners were mightily annoyed: "Beefmaster was

BILL ROSS

"Is that all there is? Plants are healthy, but the crop is sparse"

—Henry Wagner

"The tomato bottoms turn brown, my neighbor says blossom-end rot"

—David Zimmers, San Jose, Calif.

NORMAN A. PLATE

"My Beefmasters were the floperoo of the year, with huge misshapen fruit"

—Gordon Willis, San Diego

the floperoo of the year, with a few huge, misshapen fruit—they're a mess!" "I have a Beefmaster tree farm with only a few huge tomatoes." "Beefmaster was tasteless, the fruits had impossible shapes." "If you want freaks, grow Bragger and He Man."

Some tended to take their tomato problems personally: "Our Beefsteak tomatoes look terrible—we are really ashamed of them."

Others searched for outside explanations: "The tomatoes are tough and pithy, with big cores—maybe they got mixed in with the squash?"

A few gardeners expressed quiet defeat: "Only one fruit developed on the enormous, healthy Beefsteak plant, but it rotted before I had a chance to pick it. Tomato worms like the foliage."

What is a "beefsteak-type" tomato and why does it fail? Although much confusion surrounds this term, it generally is used to describe extra-large (1- to 2-pound) tomatoes with deep red, meaty flesh. One variety even goes by the name Beefsteak.

These tomatoes, which have been favorites in Southern and Eastern states for years, often flop in the Western states because of their need for mild night temperatures (ideally 65° to 70°) when setting fruit, their generally slow rate of maturity (80 to 90 days), and their preference for humid summers.

Like other "late" varieties, beefsteaks refuse to set fruit when nighttime temperatures drop below 55° or daytime temperatures climb above 95°. Unless the tomato flower is pollinated properly within a critical 5-day period, it drops off and no fruit forms.

Hormone sprays can help early in the season when chilly nights are the problem, but they have no effect in high heat. And numerous gardeners complained that fruit was deformed when they used these products.

A few *Sunset* readers who succeeded with beefsteak tomatoes mentioned planting them next to a south- or west-facing wall, which would help when low temperatures are causing blossom drop. (Also, covering plants at night keeps them warmer.)

Some gardeners discovered they got better fruit set on these and other "late" plants by gently tapping the tomato flowers during the warm sunny hours of the days: "I touched each blossom several times with my finger once or twice a day with amazing results—almost every blossom set." "All the flowers turned into tomatoes—I just tickled them a little." (See photograph on page 98.)

"Most of my tomatoes develop dark rotten areas on the bottoms"

Another common problem was blossom-end rot (see photograph at left). Although this malady is still somewhat of a mystery, it tends to be associated with wide fluctuations in soil moisture. For example, if you have been pampering the plants with abundant water, and then let them dry out severely during a hot spell, your tomatoes may develop this problem. Try to maintain even soil moisture (a mulch will help, as well as serve to deter competitive weeds).

"Something seemed to suck the life out of the plant"

Some gardeners were baffled when apparently healthy plants went into a decline: "As soon as the fruit started to ripen, the plants wilted and died." "My vines began to die early and continued until there was nothing left—something seemed to suck the life out of the plant."

Although environmental factors such as excess salts in the soil or waterlogged soil can cause similar symptoms, the problem is often verticillium wilt, fusarium wilt, or nematodes (tiny parasitic worms). These cause gradual yellowing, stunting, and sometimes death. Stricken plants should be pulled out. Avoid replanting in the same area next year since these organisms linger in the soil, and choose varieties labeled "VFN" since this indicates some resistance to these maladies.

Curly top virus (Western yellow blight)

is another common tomato disease in the West, and it is carried by the sugar beet leafhopper (a ¼-inch, green, flying insect). Young plants are stunted, and leaves on older plants curl up, become stiff, and develop purplish veins. If fruit has formed, it will ripen without increasing in size. Shading plants early in the season sometimes helps, since the leafhoppers are not attracted to shady areas. Also, there are a few varieties that show limited resistance to this disease: Columbia, Rowpac, Roza, and Saladmaster. (Seeds are available for $1 per packet from Washington State Crop Improvement Association, 513 N. Front St., Yakima, Wash. 98901.)

When tomato hornworms get the munchies

Tomato hornworms were the principal uninvited guests cited by tomato gardeners. These voracious feeders are cleverly disguised to look like blobs of bright green foliage. Their long (3- to 4-inch) fat bodies have only a few inconspicuous white stripes to give them away, and a reddish horn on the hind end. They love tomato leaves but will also eat green and ripe fruit; you can hear them munching if you listen closely.

One gardener, Henry Wagner of Rialto, California, devised a creative solution to his hornworm problem. He enticed a scrub jay to his garden with a small jar of peanuts attached to a tall stake (he refills the jar daily). After the bird eats the peanut snack, it hunts for hornworms: "The scrub jay has sharpshooting eyes. Any hornworm has a short life if the bird sees it."

Long Beach gardener J. R. "Dick" Cole, who boasts large feet, has a more direct method: "I pick off the hornworms and stomp them with my 12-Ds."

You can reduce next season's hornworm population by tilling the soil after the tomato plants have been harvested and removed. This helps to destroy pupae (brown, 1-inch, hard cases) that are overwintering in the soil. □

"We put out 39 plants, and lost only 2 from disease. We had 20 Burpee VF, 11 Better Boy, and 8 Royal Ace in two 57-foot-long rows spaced 4 feet apart"

—Lester and Roberta Brubaker, Los Altos Hills, Calif.

DARROW M. WATT

Chrome shelf units *hold books, toys, and sports equipment. System comes knocked down; each étagère cost about $175*

Wire shelves *and metal posts cut with a hacksaw make tiered table ($140) and lightweight lap tray ($60)*

Vinyl-coated steel components *organize a closet. Sections 16 inches deep form shelves, uprights, shoe rack; system also includes clothes rod, tie hooks. Shelving pictured cost about $240*

Industrial wire shelves are coming into the house

They come in modules, they are easy to install, they are airy, light, easy to change around

Out of the warehouse and into contemporary interiors, industrial wire shelving has made the transition while scarcely changing its looks.

Lightweight but built to carry heavy loads, the shelves easily adapt to store audio components, books, pots and pans, food, and even clothing.

Wire shelves are easy to install and maintain, and low in cost compared with custom-made wood cabinets. They come in modules of different sizes depending on the manufacturer; shelves, posts, and connectors are priced separately. To design your own unit, you select the shelf units you need and cut the uprights with a hacksaw. To tailor-make a storage system, use these alone or with other components such as pull-out bins and S-hooks.

Some manufacturers have taken wire shelves out of the commercial field and now make them primarily for residential use. Examples are the vinyl-clad shelves seen in the closet above. They sell by the unit (a 12- by 36-inch shelf costs about

Foot-deep wire units *provide above-counter shelving; fronts drop down to partially conceal dishes and foodstuffs. Angled brackets support this L-shaped system, which cost $175*

Pull-out bins *and open-front baskets: these and other pieces can add flexibility to shelving*

$9) or in kit form to make specific pieces. These wire shelves are best suited to storage in closets or kitchens.

Industrial wire shelves come in different finishes; since they are designed for heavy commercial use, they should last indefinitely in the home. But they are more costly than the vinyl-covered shelves: Zinc chromate (a dull gray color) and chrome are the least expensive, at about $35 for an 18- by 36-inch shelf; a 74-inch post sells for about $14. Brass costs about 10 percent more, and stainless steel and epoxy finishes about 50 percent more.

Look for wire shelves in kitchen sections of large department stores, in high-fidelity stores, and in kitchen specialty shops. If you don't find what you are looking for there, look in the yellow pages under Material Handling Equipment or Restaurant Equipment and Supplies. And if you find only wholesale sources, inquire where the shelving is available retail, or order through an interior designer or architect. □

Shelves and posts *construct open pantry on kitchen counter. Six 18- by 30-inch shelves anchor to 86-inch posts with levelers on bottoms. Total cost: about $220*

NORMAN A. PLATE

Delicious discovery . . . *mucbil-pollo*

It's a tamale pie that is really and truly Mexican

Unpretentious tamale pie—in the West we've come to accept it as an unabashed illegitimate offspring of Mexican cookery. It's just a big mock tamale, a casserole lined with cornmeal mush and filled with a savory meat mixture.

Then we visited Yucatán and discovered a bona fide Mexican tamale pie going by the local name of *mucbil-pollo*. In Spanish *pollo* means chicken and *mucbil* refers to the way the dish is prepared. Traditionally it is a king-size tamale shaped in a banana leaf. But María Inez Canol (pictured below), chef at Hotel Hacienda Uxmal, has taken *mucbil-pollo* one step further. She wanted an even bigger tamale, so she put the banana leaf in a baking pan to get a larger area and more support for the filling. For Western cooks (short on banana leaves) we have found that you can use foil to seal in the pie as it bakes.

Masa dough, not mush, forms the crust that bakes fragrant and crisp. It's made from masa harina (dehydrated masa flour). The hearty filling uses just one chicken, making this festive entrée for eight pleasantly economical.

Mayan chef *María Inez Canol unveils her specialty, a giant tamale pie baked in banana leaves*

Classically, the seasoning is the very mild *achiote* condiment, a red paste sometimes available in well-stocked Mexican markets. An alternative to this condiment is a combination of seasonings with paprika as the base. Anise and mint are used to approximate the flavor of *epazote*, an herb used freely in Mexico in making *mucbil-pollo* but hard to come by on the West Coast.

To go with the pie, you might like a salad that is popular in Yucatán's capital city, Mérida. Slices of apples and citrus are seasoned with lime, coriander, and salt to make a refreshing, low-in-calorie dish. Flan is an appropriate choice for dessert.

Mucbil-Pollo

- 4 ounces *achiote* condiment (or *achiote* substitute; directions follow)
- 5 cups water
- 4 chicken bouillon cubes
- ⅛ teaspoon anise seed
- ½ teaspoon dried mint leaves
- 4 pound broiler-fryer chicken, cut in pieces
- 2 medium-size onions
- 2 large tomatoes
- (If using achiote substitute, combine 1 tablespoon masa harina with 3 tablespoons water)
- Masa dough (directions follow)
- 4 hard-cooked eggs, cut in half lengthwise
- About 24 *each* radishes and green onions for garnish

Put achiote condiment in a 6-quart kettle. Use a heavy spoon to work condiment into a smooth paste, adding a little water at a time until well blended. Add the remaining water and bouillon cubes and bring to a boil. Let simmer uncovered for about 10 minutes, then pour liquid through a fine wire strainer and return to kettle; discard residue in strainer. (If using achiote substitute, it is not necessary to strain the broth.)

To broth add anise seed, mint, and chicken pieces, placing breast sections on top. Bring to a boil, cover, and simmer for 45 minutes; do not stir.

Meanwhile, peel onions and quarter. Remove stem ends of tomatoes and cut each into 6 wedges. After chicken has cooked 25 minutes, place onions in kettle on top. After 10 minutes, add tomatoes alongside the onions.

At the end of the cooking time, remove from heat. With a slotted spoon, gently lift out vegetables and chicken, letting broth drain, and place on a rimmed tray. When cool enough to touch, remove skin and bones from chicken and discard. Tear meat into bite-size pieces.

Boil broth over highest heat, uncovered, until reduced to 2 cups; stir to prevent sticking. (If using achiote substitute, add masa harina and water paste and return to a boil, stirring.) Remove from heat.

Grease a 3-quart shallow casserole (metal, ceramic, or glass). With a flexible spatula, evenly spread about half the masa dough over bottom and sides of container, flush with the rim. Add the chicken, tomatoes, onions, and eggs, distributing evenly, then cover with the broth. Shake dish gently to level filling.

Gently spoon dollops of remaining masa dough on top, then spread carefully to enclose filling; don't worry if a few thin areas develop and bits of filling show. Cover tightly with foil (if desired you can refrigerate casserole overnight). Bake on lowest rack of a 425° oven for about 1½ hours; remove foil after 1 hour and continue baking until top is golden brown.

Remove from oven and let stand at least 10 minutes before serving. Cut in wedges and spoon from casserole. Accompany with green onions and radishes. Serves 8.

Achiote substitute. Mix together 2 tablespoons vinegar, 3 tablespoons paprika, 1½ teaspoons oregano leaves, 3 cloves garlic (pressed), and ½ teaspoon ground cumin.

Masa dough. With an electric mixer, beat 1⅓ cups (⅔ lb.) lard until fluffy. Blend in 4 cups masa harina (dehydrated masa flour) and 2 chicken bouillon cubes, crumbled. Gradually add 2⅔ cups warm water, continue beating at high speed until well mixed, scraping bowl sides

Real Mexican-style *tamale pie can be assembled ahead. Accompany with crisp radishes, green onions*

Aromatic *masa crust bakes crisp and golden and surrounds chicken, onion, tomato, and hard-cooked egg. Serve with citrus and apple salad (below) flavored with cooling dressing of lime, coriander*

TERI SANDISON

as needed. Keep covered at room temperature until ready to use. Makes 5 cups.

Mérida Salad

- 2 large oranges
- 2 tangerines (or 1 more large orange)
- 2 large pink grapefruit
- 2 large green-skinned apples
- 4 tablespoons lime juice
- ½ cup fresh coriander (cilantro)
- Salt

With a knife, cut peel and white membrane from oranges, tangerines, and grapefruit; hold fruit over a bowl to catch any juices. Slice oranges and tangerines; separate grapefruit into segments. Core and thinly slice apples.

In a shallow serving dish attractively arrange the apples, orange slices, tangerine slices, and grapefruit segments. Sprinkle evenly with lime juice and any of the citrus juices. Garnish with coriander. Sprinkle lightly with salt and serve. Makes 8 servings. □

The flavors of Yucatán *preside at this informal party in Pacific Palisades*

BILL ROSS

Mickey Mouse *entertains on north side of Disneyland's central flower bed. It's mid-November—gardeners are planting 4-inch pots of Chrysanthemum 'Yellow Mandalay'. Next, white mums will replace the ageratum at left*

Topiary hippo and dog, *at top, cavort among English daisies and candytuft in mid-March. Above, it's late June and they're in marigolds and ageratum*

Tree wisteria *and gamolepis, above, bloom in March at Frontierland train station; at right, marigold 'Yellow Nugget' fills bed in June*

BILL ROSS

Ground cover *Chrysanthemum paludosum blooms November till April in bed by Submarine Voyage exit. It will be pulled out, replaced with marigolds*

Shaded bed *by Pirates of Caribbean entrance holds Primula malacoides (here not yet blooming) from November to March, then Begonia semperflorens*

It's an art: keeping garden beds full of flowers year-round. Disneyland was the first institution in the West to perfect this art in public view every week of the year —and it's been doing it for 25 years.

If you live in a mild-winter climate (any place where you can grow citrus outdoors) you should be able to duplicate any part of Disneyland's planting-blooming plan. But if you live in a climate that doesn't allow annuals to grow and bloom through the winter, you can still make use of the spring-through-fall plantings shown in the chart on page 108.

With Disneyland's 25th anniversary going on this summer, *Sunset* here passes along to you the park's flower-planting list and calendar, and photographs of some of its all-year flower beds at different seasons. On page 109 is a calendar of public events at Disneyland in May, June, and July in celebration of its silver anniversary.

Because of the number of kinds of plants and the garden space involved, we'd be surprised if many *Sunset* readers were able to follow the entire calendar. Disneyland's 65 landscaped acres contain 110 flower beds, and each of those beds gets changed from twice to five or six times a year. The beds range from tabletop size to 2,000 square feet.

Disneyland employs 30 full-time gardeners, plus 14 others who do noncultivation landscape work (plumbing, pest control, tree pruning).

In one year the park buys and plants approximately 8,000 flats of bedding plants. To keep all beds in bloom or as close to in bloom as possible, the Disneyland people frequently buy and plant larger-than-normal plants from flats. The plants can grow bigger because they are slightly less crowded than the ones sold in flats at nurseries. Mostly, the flats Disneyland has grown for them (the growing is entirely contracted out) hold 36, 49, or 64 plants. In retail nurseries, 81 and 90 are more common counts.

Another way Disneyland gets quick flowers, especially toward the end of a given plant's season, is by setting out flowering plants from 4-inch pots—as the gardeners are doing with the chrysanthemums in the picture at far left.

It's a rare occasion when you see bare

Bright garden color the year around

In Disneyland there has been color on view every week of the year for all of the past 25 years. Here is Sunset's report on Disneyland planning. Also 25th birthday events

Disneyland color calendar. White dots say "bloom"

Seasonal Plants	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
Ageratum												S
Alternanthera												
Anemone												
Aster (Callistephus)	S											
Begonia semperflorens												
Calendula								S				
Candytuft												
Carnation												
Catharanthus (Vinca rosea)	S											
Celosia	S											
Chrysanthemum multicaule												
Chrysanthemum paludosum												
Cineraria								S				
Coleus												S
Cyclamen											S	
Dahlia	S											
Dianthus												
English daisy								S				
Gloriosa daisy												S
Iceland poppy							S					
Impatiens	S											
Lobelia												
Marigold												S
Pansy								S				
Penstemon gloxinioides								S				
Petunia												S
Phlox												S
Poinsettia												
Portulaca	S											
Primula					S			S				
Ranunculus												
Salvia splendens	S											
Shasta daisy								S				
Snapdragon									S			
Stock									S			
Sweet alyssum												
Sweet William									S			
Tulip												
Verbena	S											
Viola								S				
Zinnia			S									

Green bars *run through months in which Disneyland gardeners set out each plant. Late in the season, they may set out 4-inch pots rather than small plants from flats. White dots run through months when the plants bloom or perform. Four plants—begonias, dianthus, lobelia, and sweet alyssum—are planted and bloom in all months. "S" marks months in which crop is seeded (if grown from seed)*

Raft-landing bed *has two ever-blooming daisy shrubs: euryops (front) and gamolepis. It's March, and impatiens around base have just been planted*

BILL ROSS

Flagpole bed *at Main Street's Town Square gets changed often. At left are white pansies and bronze chrysanthemums in March; right, in November, blue pansies and white Catharanthus (Vinca rosea). Disneyland Band plays under elms*

soil in a Disneyland flower bed—usually one that's just been planted, as in the lower photograph on page 107.

Furthermore, what you do see is not real soil at all. It's manmade, consisting originally of sand, redwood sawdust, and nutrients (much the same thing as in a sack of good potting mix).

Real soil fails for gardening as intensive as this (two to six crops a year) because it would probably be too clayey and because it acquires and holds various harmful soil-borne fungus organisms. Under typical home garden conditions, where plants aren't changed as often, these soil organisms usually are not very troublesome.

In Disneyland's first 15 years, the beds of artificial soil, 6 to 8 inches deep, were completely replaced every two years; now, labor costs make such removal impossible. Instead, 1 to 2 inches of redwood compost are added once a year and are rotary-tilled into the soil along with a complete fertilizer. To minimize the soil-borne disease problem, many beds nowadays are fumigated every year with methyl bromide (a fumigant that is limited by law to commercial use). Again, this technique is seldom necessary in home gardens.

In addition to the chemical fertilizer tilled into the soil once a year between plantings, the plants are fed at approximately monthly intervals with a liquid fertilizer high in nitrogen and potassium—the two elements that irrigation leaches quickly out of the sandy soil mix.

All the flower beds in Disneyland get their water through sprinkler systems, which are mostly automated. Time clocks activate the sprinklers between 2 A.M. and 5 A.M. Throughout the park, gardeners hand-water when necessary—mainly for problem situations or for new plants (that's why the primulas on page 107 are being watered with a hose).

The landscape designers for most of Disneyland were the late Jack Evans and his brother Morgan Evans. Many changes and additions to the landscape after 1955 were by Morgan Evans. Disneyland's present landscape architect is Scott Girard. □

Disneyland in 1980: prices, hours, birthday events

Getting there. If you're driving, take the Harbor Boulevard offramp from the Santa Ana Freeway (I-5). Parking costs 50 cents. For public transit information, see page 90. For information on specific show times and performers, telephone (714) 999-4455.

Ticket prices

General admission is $6 for adults, $5 for ages 12 to 17, and $3 for children 3 to 11 (under 3, free). Combination admission-ride tickets are a better value: an 11-ride book costs $7.75 for adults, $7.25 for juniors, and $6.75 for children; a 15-ride book costs $8.50, $8, and $7.50.

A 2½-hour guided tour, recommended especially for first-time visitors, includes seven attractions (five with the guide and two on your own): it costs $10 for adults and juniors, $7 for children.

Park hours

In May, the park is open 10 to 7 weekdays (9 to 7 May 26); 9 to midnight Saturdays; and 9 to 7 Sundays (to midnight May 25).

June 1 and June 8 through 13, hours are 9 to 9. June 2 through 6, hours are 9 to 7. June 7, the park is open 9 to midnight.

June 14 through September 6, hours are 9 A.M. to midnight Sundays through Fridays, 9 A.M. to 1 A.M., Saturdays.

25th birthday events

Encore Nights, May 3, 10, 17, 24, 25, and 31, and June 7. Performers who have played the park in the past will appear on the Space Stage in Tomorrowland. Jazz artists will perform on May 24 and 25.

25-hour Birthday Party, July 17. Like New Year's Eve on Times Square, a zero-hour countdown right before midnight on July 16 will signal the start of the night-and-day-long celebration that will end at 1 A.M. on July 18. Special shows and musical entertainment will be presented throughout the park.

25th Birthday Parade, daily at 3 P.M. The parade will feature horse-drawn entries, including Cinderella's crystal coach, from each theme land, employees in costume, and the park's regular entertainers. It will wend its way down Main Street to It's A Small World in Fantasyland. At 9 and 11:30 every night from June 14 through September 6, the Main Street Electrical Parade will follow the same route.

Which soup for breakfast

Bacon, eggs, with toast, all afloat

Cook 4 to 6 slices bacon until crisp; drain, crumble, and set aside. Discard fat and add 2 cans (about 14 oz. *each*) regular-strength beef broth. Heat to simmering, add 2 sliced green onions, and break in 4 eggs. Cook just until eggs are set, then lift each into a bowl and ladle broth over top. Pass bacon and croutons to sprinkle on at the table. Makes 4 servings.

Breakfast stew with oyster bites

Drain 2 cans (8 oz. *each*) whole oysters, reserving liquid. Cut oysters into bite-size pieces and cook in 1 tablespoon butter or margarine until edges curl. Stir in oyster liquid, 1 quart milk, and 3 thinly sliced green onions. Season to taste with pepper and heat until steaming. Makes 4 servings.

this morning?

Mornings, rushed as a rule, are rarely a popular time for experimentation—unless a change can make chores easier and present some surprising but not startling new flavors.

So if bacon and eggs are your breakfast standards, why not shake up ho-hum A.M. attitudes with bacon and eggs in soup. Or ladle out canned oysters steaming in milk for the fish-for-breakfast fanciers (the same folks who appreciate finnan haddie or kippers, as well as all who like a light oyster stew). Chunky and satisfying corn chowder can stand in for corn flakes. And instead of scrambled eggs, stir up a cupful of broth laced with ribbons of egg.

These four warming suggestions all capitalize on the use of only one cooking pan and ingredients you can keep on hand. The time involved may be little more than that required to bring liquid to a boil.

Simplifying even more, breakfast soups can be ready vehicles for leftovers. Heat canned broth or tomato juice, add bits of cooked meats or vegetables, rice or pasta, then sprinkle with grated Parmesan cheese. Any combination works to make this morning minestrone; a generous cupful makes a meal.

And don't overlook the menu even a child can handle—a favorite canned soup heated and sipped on the run. □

NORMAN A. PLATE

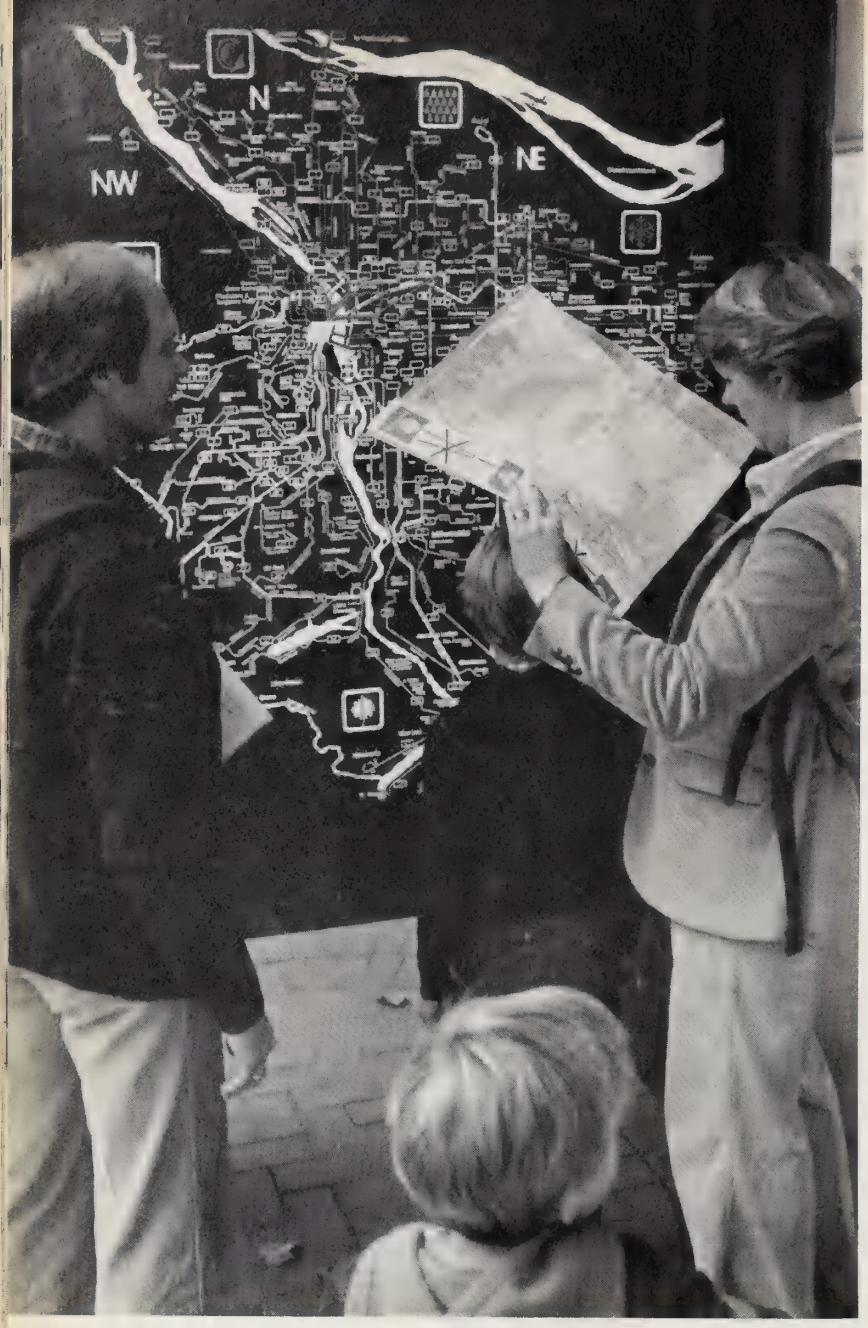
Corn chowder with sausage slices

Thinly slice 1 Polish sausage (kielbasa). Cook in 1 tablespoon butter or margarine until browned. Discard fat; stir in 1 can (17 oz.) cream-style corn, ½ to ¾ cup milk, ½ teaspoon chili powder, and ⅛ teaspoon ground cumin. Heat until steaming. Pass canned French-fried onions to sprinkle over top. Makes 2 servings.

DARROW M. WATT

Egg ribbons in a mug of broth

Heat about 1½ cups regular-strength beef or chicken broth until steaming. Stirring constantly, slowly pour in 1 beaten egg; cook until ribbons of egg are set. Garnish with chopped parsley. Makes 1 serving.



Their tour of Portland *starts here, at the downtown transit mall on Fifth and Sixth avenues; its information stations, with maps and computers, unravel the bus system*

On the mall, *deer symbol above shelter indicates which area is served by buses stopping here*

Exploring Portland by bus

"Portland has the best transit system of any city its size in the country"

How true? See for yourself if your travels get you to Portland. Here is how Tri-Met works, where it takes you

Crossing *Vista Avenue bridge en route to Council Crest Park (orange deer area), Tri-Met passengers have skyline view*

MICHAEL THOMPSON

Just 18 minutes *from the mall on bus #63: at Washington Park Zoo, you can tempt the giraffes with special animal food crackers sold at the gate; zoo hours are 10 to 5:30 daily*

Same bus #63 *also stops at terraced rose gardens, one of city's most popular free attractions. Gardens are open during daylight hours*

"**Portland** has the best transit system for a city of its size in the country," believes Neil Goldschmidt, Secretary of Transportation. He might be a bit biased—as mayor of Portland in the mid-70s, he played a big part in the development of that system.

But in the past decade, the city has made dramatic strides toward a comprehensive bus network—one that other cities are watching or emulating. Portland has done it with a stylish 22-block transit mall, a downtown free bus zone, and prompt buses.

For the visitor, Tri-Met (Tri-County Metropolitan Transportation District) offers an easy way to get around a sometimes confusing town laced with ten bridges, two rivers, and a slew of freeways and one-way streets. It's a fast, inexpensive way to sightsee that is made simpler for newcomers with guidebooks and computerized help.

Tri-Met goes almost everywhere. Its service area blankets 1,000 square miles in three counties with over 7,000 stops. Buses stop at all 160 city parks, museums, the biggest urban forest in the West, the zoo, the rose and rhododendron gardens, and all other major attractions. Some routes are tailor-made for sightseers, with several attractions on the same line.

Portland has a long history of good public transportation, from the first horsecar line on First Avenue in 1871 to Rose City Transit trolleys. But in the early '70s, as auto traffic and air pollution increased downtown, the city turned down a plan for a new freeway and is using the money for mass transit programs.

Those programs proposed to reduce and limit downtown parking spaces to 1973 levels, to improve bus access to downtown, and to build a transit mall with limited auto access along 11 blocks of S.W. Fifth and Sixth avenues from S.W. Madison Street to W. Burnside Street. The plans were hailed as progressive by some, restrictive and costly by others.

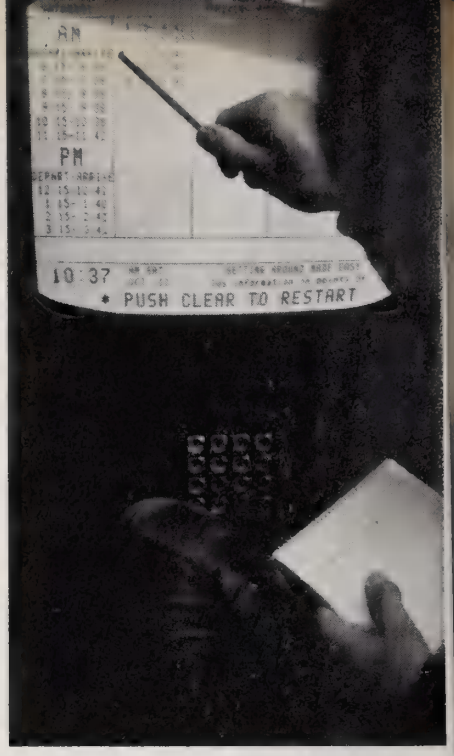
The results? Traffic downtown is back to

1972 levels, bus ridership has risen 110 percent in the past five years, and one-third of all trips downtown are made on the bus (during the same period, Oakland's comparable AC Transit system saw only a 10 percent increase in ridership). With reduced auto traffic, carbon monoxide emissions decreased 22 percent in a five-year period.

Some problems have also developed. Fifth and Sixth avenues suffer more noise at peak commute hours, increased ridership has taxed services, and rising costs have caused a recent fare hike (it's now one of the highest city fares in the West). But after a business slowdown during mall construction, the downtown has seen a development boom. "Downtown Portland was dying," says Tom Frey, one of the mall architects, "and we hoped to give it a shot in the arm."

The $16 million mall was built with 80 percent federal funding. It blends controversial art, fountains, wide brick walkways, and benches with a unique information system that unlocks the whole transportation network. For many it's immediately helpful, even fun to use, but as one Portlander said, "Those computers and buttons . . . it's intimidating."

1 · *Stop at the Tri-Met information office on the mall for free schedules, help from transit planners*



2 · *At the trip planning kiosk, a computer gives bus schedules, directs you to right bus-stop shelter*

Planning your bus trip. Free schedules, video screens, computer directions

Letting computers plan your trip

Here's how it works. The mall is dotted with information kiosks, schedule computers, and 31 covered bus shelters with video information screens. Almost all Portland bus routes begin and end on the mall, with northbound buses leaving from Sixth Avenue and southbound buses from Fifth Avenue.

Before starting your trip, you might visit the Tri-Met Customer Assistance office, on the mall at 522 S.W. Yamhill Street (open 8 to 6 weekdays). Here you can ask questions, pick up free route maps, and buy a Ride Atlas (50 cents) that shows the system and various attractions.

Along the mall are eight trip-planning kiosks; each has a system map on one side and a computer video screen and keyboard on the other. You can use the map to find which bus serves your destination, then punch in the route number on the keyboard to get the departure and arrival time. Each kiosk also has a telephone hotline to Tri-Met.

The system is divided into seven service areas designated by a color and symbol (orange deer, green leaf, for example). The kiosk map shows which symbol marks your bus routes. The attractive glass-enclosed bus-stop shelters are also marked with the symbol of the routes they serve. Inside, each shelter is equipped with a detailed map of the service area and a video screen showing actual departure times of the next buses.

There are five stops along the mall for each of the seven service areas. So once you're on the mall, you don't have to walk more than a couple of blocks to get to your stop.

Most buses run from 5:30 A.M. to 9 P.M., some run until midnight, and seven routes have all-night "Owl Service." As in most cities, buses here often run standing-room-only during peak commute hours of 7 to 9 A.M. and 4 to 6 P.M. weekdays, so avoid those hours if you can. On weekends, buses are reliably uncrowded but run less frequently on some routes. The buses are handy for cross-town travel, since all but five routes go through downtown—but some visitors find it bothersome to return to the downtown mall before proceeding to the next destination.

A parade *of buses runs down right lane of transit mall; autos have limited left lane access. Wide sidewalks leave room for shoppers, waiting bus riders*

What to see

Our map at right shows the seven areas and some of the attractions in each. If you want to visit several spots during the day, it's a good idea to first write out your destinations in a logical order for visiting them. Then bring along a detailed city map and a notebook to the trip planning kiosk so you can write down schedules for each bus you'll need

MICHAEL THOMPSON

3. *Inside the shelter, a video screen tells you when your bus is due to leave*

Map below shows city's 7 bus areas, each with its own symbol

and be able to coordinate your trips.

Before hopping on a bus, you might want to walk around the mall itself to enjoy its street scenes of flower vendors, colorful food carts, and occasional musicians. You can pick up a free self-guiding tour pamphlet called *Do the Portland Mall Walk* at the Tri-Met Customer Assistance office. It shows some 29 stops, including such landmarks as the 1893 Pioneer Courthouse at S.W. Yamhill Street and Fifth Avenue, the Oregon Historical Society at S.W. Jefferson Street and Park Avenue and 11 modern sculptures by Northwest artists. You may see why the mall has become "a source of civic pride, a new landmark for Portland," as one city planner believes.

A big chunk of downtown, some 300 blocks centered around the mall, is a free bus zone daily except from 3 to 7 P.M. weekdays. You can hop on and off anywhere in this section, which is bounded by the Willamette River on the east, Interstate Highway 405 on the south and west, and Irving Street on the north.

It's a good way to see some of Portland's splendid fountains—we counted eight downtown (all listed in the *Mall Walk* pamphlet). Five were done by architects from the team that designed the mall —Skidmore, Owings and Merrill and Lawrence Halprin Associates. Others include the untitled steel sculpture by Lee

Kelly at S.W. Sixth Avenue and Pine Street—called by one grouser a "riveter's nightmare"—and the beloved old elk at S.W. Main and Third streets. With its 18-foot-high waterfall, the striking Ira's (Forecourt) Fountain at S.W. Third Avenue and S.W. Market Street is itself worth a side trip.

Perhaps the best single tour is on bus #63 in the orange deer service area. On its 18-minute run, it takes you through some stylish neighborhoods to a cluster of attractions in Washington Park—first to the International Rose Test Gardens and Japanese Gardens, then to Hoyt Arboretum, and finally to a complex containing the Oregon Museum of Science and Industry (OMSI), the Western Forestry Center, and the Washington Park Zoo. Bus #63 leaves hourly from the mall (S.W. Morrison Street and S.W. Sixth Avenue) and from the zoo.

A four-destination day, all by bus

To try out the system, our reporters planned a day's sightseeing in four sections of town. Starting at just after 8 A.M. on the mall, they first headed west to visit Washington Park (#63, orange deer), then south along the Willamette River to shop at John's Landing (#36, green leaf), east to picnic and hike at Mount Tabor (#21, blue snowflake), and finally north to Peninsula Park's sunken gardens (#28-Mississippi, red salmon), ending back at the mall at 3:30.

They spent an hour or so at each stop, then took return buses back to the mall to catch the bus for their next destination. The longest wait on the mall between buses was 20 minutes. For a family of four, this day's sightseeing would cost $14.80 for transportation.

Wilderness by bus

The country's largest in-city wilderness park is Portland's Forest Park. Its 6,500 acres stretch for 9 miles along a 1½-mile-wide strip atop the Tualatin Mountains in the city's northwest corner. Much of it is reachable by bus on a 16- to 25-minute run.

There are some 40 miles of trails here. By taking the bus, you can start your hike at one trailhead and come out at another without having to backtrack to a parking lot. This month the rains should have abated and the trails should be fairly dry, so you can probably hike in any good walking shoes. A canteen is handy, since water is available only at park headquarters at the end of Upshur Street near 30th Avenue and on Cornell Road near the Wildwood Trail.

Forest Park headquarters (unmanned) is a good starting point for hiking. Take bus #53 (red salmon; board on Morrison Street), get off at N.W. Thurman Street near N.W. 30th Avenue, and walk one block north to the headquarters on N.W. Upshur Street. Here you can pick up maps and sign the park register.

One easy hike goes 6½ miles west up the Lower Macleay Trail to the Wildwood Trail, then south on Wildwood to its terminus at the Western Forestry Center. Along the way you'll hike through tall hemlock, cedar, and dogwood (they might be in bloom now) and out to the historic Pittock Mansion on the steepest part of the trail, through the Hoyt Arboretum, and finally to the Western Forestry Center. There you can catch the #63 (orange deer) bus to return to downtown.

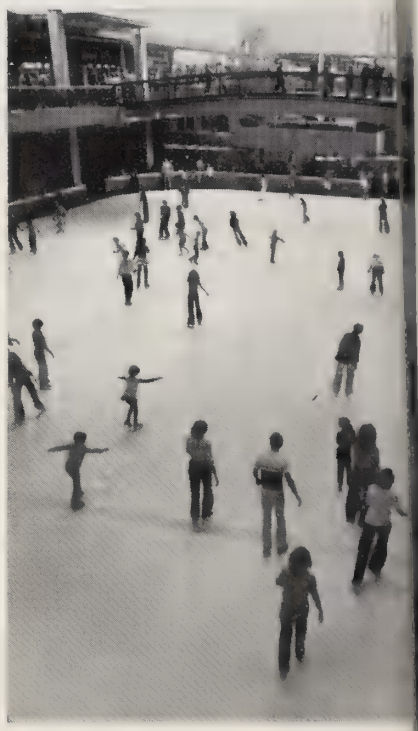
For a shorter hike—about 3 miles—take bus #53 out to its last stop (at Gordon and N.W. Thurman streets) and walk south to the stairway that leads to the Aspen Trailhead. Go west on this trail to Wildwood, then south on Wildwood and east on Lower Macleay back to park headquarters. Return by bus #53. As you walk the Aspen Trail, you'll see natives such as Oregon grape, ivy, salal, and alders and bigleaf maples beginning to leaf out.

There are good views of Portland and Mount Hood from many spots along the trails, as well as picnic sites and clusters of wildflowers. You can pick up hiking and plant guides at the Hoyt Arboretum

MICHAEL THOMPS

In Fareless Square, *you can see downtown Portland's eight fountains, including this horseshoe-shaped oddity designed by Lawrence Halprin Associates*

Lloyd Center has covered ice arena surrounded by shops, restaurants. Buses #8-Irvington, #9-Broadway, and #12-Beaumont stop here



Willamette Park fishing pier is one of several riverfront areas where you can cast for chinook, bass, catfish. Take bus #36

Forest Park offers wilderness hiking just 20 minutes from downtown. Buses #53 or #77 leave you right at the Wildwood Trail

Ice skating at Lloyd Center, fountains downtown, fishing at Willamette Park, wilderness hiking in Forest Park. Just board the right bus

visitor center just off the Wildwood Trail, open weekends from 8 to 5.

Fares, tickets, information

Fares are based on three travel zones: Zone 1 is Fareless Square, free except 3 to 7 P.M. weekdays; travel between Zone 1 and Zone 2, which describes a 5-mile radius around Fareless Square (most tourist spots are within this area), costs 55 cents; from Zone 1 to Zone 3, the remaining area, is 75 cents. In Zones 2 and 3, fare for children under 18 is 40 cents, under 6 free.

You need exact change, or you can buy a book of 10 bus tickets at either the Tri-Met information office at 522 Yamhill Street or the Meier & Frank Department Store, 621 S.W. Fifth Ave., open 9:30 to 6 Monday through Saturday. If you plan a long stay, a monthly pass might be worthwhile ($25 for Zone 1 to 3 travel, $18 for other trips). Transfers are free but have a 1-hour time limit.

When you get to town, call (503) 233-3511 for more information or for help locating the nearest bus stop. □

1 • *There's comfortable space for game players on the padded seat, with generous storage underneath. New pop-out in family - dining room didn't gobble up any floor space*

Sit-in-the-window? The idea goes on and on

Here are five new ones with small and large surprises in game windows, sprawl spaces, reading space, sleeping space

Romantic anachronisms? Not at all. Window seats can be very useful in today's houses. They provide extra seating without cluttering a room, store toys and games or bedding, house stereo speakers, and can even sleep overnight guests. They can be added to existing rooms, either as pop-outs or to fit inward from an outside wall. Here we show five of them.

Designed by Portland architect William

2 • *Generous enough for sprawling or for sleeping, carpeted seat fills low wedge of space under steeply sloping glass*

4 • *Recycled antique window fills end of small room. Pillows and blankets store in middle of seat, stereo speakers on ends*

3 • *Flanked by closet and deep shelves, built-in couch serves as a cozy reading nook. Paneling at ends matches slope of window*

5 • *Slim cantilevered seat, only 18 inches deep, has sloping window above. Design: Masaru Yamamoto, Berkeley, for Bob Stocksdale*

Hawkins, the bay and window seat where the chess game is in progress added valuable new seating and storage to Richard and Patricia Oliphant's family room. And there was a bonus: the bay's three sides of glass, which replaced a small double-hung window, bring in light needed because the room is shaded by a wide overhang.

In the photograph at top, space under a big expanse of sloping glass, under the skylight-roof of a new house, became a place where owner Rick Mackey of Seattle can read, snooze, or watch squirrels and birds in the trees above. Architect Roger Newell designed the carpeted plywood platform, supported on a 2-by-4 frame, a step above floor level.

Stewart Mayer of Santa Monica, California, designed shelves and closets in outside corners of Karen and Patrick Young's study-den, shown above. Mayer used the space between the two projections for a window seat. Sloping the top half of the window inward makes the seat seem more enclosed without sacrificing light or view.

Below the arched window pictured at top, the cushioned seat has storage for pillows and blankets as well as room for stereo speakers. Owner Courtney Branch designed and built the new seating area.

In the bedroom shown directly above, an inexpensive cantilever provided a shallow seat with a sloping window. Angled braces secured to the wall studs below the window support the seat. Siding on the outside of the house masks the support structure. □

Eight external frame lightweights

Lightweight, colorful, smaller but roomy, costlier. And inside...no poles

"There's plenty of innovation. Tents are more exciting, more fun than ever, and these new designs are the shape of things to come." Mountain climber Irene (Miller) Beardsley knows about tents: she spent plenty of time in them on her way to the summit of 26,504-foot Annapurna on the first American women's ascent of the Himalayan peak.

Tent design has changed more in the last 5 years than in the previous 50. Changes in basic architecture and pole material have permitted the variety of shapes shown here. What these tents all have in common is an exterior frame, or exoskeleton. Inside, there are no poles to crash into or maneuver around, and there's more usable space. Outside, poles slip into exterior sleeves or rings. Over it all, you can often attach a rain fly—a sheet of coated, rainproof nylon, supplied with most tents, that covers the primary skin.

These exoskeleton tents are strong, stable, lightweight, easy to pitch. Some are freestanding: the tent holds its shape without stakes or guy lines. These self-supporting models can be picked up and moved without disassembly.

Innovation with fiberglass and aluminum has allowed designers to use poles up to more than 12 feet long (in break-apart sections). They are flexible enough to curve, yet strong enough to support the structure's fabric in heavy rain and snow.

By curving the slender poles, designers have created domes, geodesics, tunnels, and modifications of the classic wall tent shown on page 120. The new configurations allow more headroom and storage space. Lightweight fabric (nylon taffeta mostly) is stretched taut by the poles.

Which design for your needs?

To choose the right style, determine when and where you plan to camp and what terrain and weather conditions you're likely to encounter. For spring or summer camping, a light, two-season model should suffice. For snow camping or alpine-zone trips, you'll need a sturdy, low-profile type that can be pitched in snow or on rocky terrain, and can withstand winds.

Here are the five main types of exoskeleton tents, some typical uses, and average sleeping capacities. (Weights and prices for eight styles appear in the color photograph at left.)

Domes, geodesics. Their shape allows lots of space and headroom. They'll hold up against high winds and heavy snow loads. Freestanding models can be set up anywhere, even on rocks or sand. Small

NORMAN A. PLATE

At the campground: *dome tent with curving poles is roomy enough for three or four; it's about one third the weight of wall tent*

No strings attached: *levitating and relocating external frame tent is an easy chore*

GLENN CHRISTIANSEN

Pole-free interior *offers plenty of room for stretching out legs and sleeping bags, even a view of treetops through mosquito-netted vent. This tri-arch tent can sleep six*

tents sleep one or two persons, large ones up to four.

Tunnels (arch bow and conestoga). These low-profile styles work well in wind or rain. They're spacious lengthwise. Few poles facilitate fast pitching. Most sleep two or three persons.

Arch styles. These range from a single-arch that sleeps one bulk-and-weight-conscious backpacker or cyclist to a luxurious triple-arch tent that can sleep six persons at the campground. Smaller ones are good summer tents, larger ones are more seasonally versatile. Some models are freestanding.

A-frames. The tried and true A-frame is undergoing modifications: lighter and more compact now, it's used mostly by backpackers. Most sleep one or two persons.

Wall tents. Their shape is most familiar as family campground tentage, but new materials and designs have shaved off pounds, decreased bulk. These tents have plenty of headroom and storage space. They'll sleep from four to eight.

Shopping for a tent

With increasing sophistication in tents have come higher prices. It pays to do your homework. Look through camping equipment catalogs (at stores or order by mail), also backpacking and camping guidebooks. Prowl the shops to get an overview of what's available. Many styles can be rented from camping stores, so consider trying out several before you buy.

Check the tent from the bottom up. It should have a heavy, coated floor extending some 8 to 12 inches up the side walls for protection against ground moisture. Poles should be secured to the base of the tent for extra stability. The rain fly should extend well out from the tent base to give adequate air circulation and to reduce condensation. Best seams are double-lap, fell-stitched (folded twice then stitched down); they should show no puckering and have 6 to 8 stitches per inch (check floor seams especially).

Consider material quality and thickness—you may have to give up some strength for less weight. Inspect mosquito netting and flaps; rustproof, nylon coil zippers are best.

Inside, look for detailing: hooks, clothes lines, net pockets for maps, zippered holes for indoor cooking during foul weather. (Be extremely cautious when using flame or fuel inside a tent.) Winter campers might look for a vestibule door or tunnel entrance that would help keep snow out of the tent.

You'll find three main types of poles—hollow fiberglass, solid fiberglass, and anodized aluminum alloy. Pole sections should fit together securely and be connected with shock cording for ease of assembly.

Ask about the tent's warranty. Most manufacturer's offer one, but find out if there's a repair outlet nearby and what costs are covered.

Pretrip testing, post-trip care

After buying a new tent, practice setting it up at home a few times. All tents require extra waterproofing at the seams with a liquid or wax stick seam sealer (sold at camping stores). Spread sealant on inside seams; reapply each year.

With proper care, the fabric should last for years. In dry weather, spread a ground cloth under the tent—in wet weather, the cloth holds moisture to the tent. After use, pack the tent out dry if you can. Otherwise, air-dry it as soon as possible. (If left wet, seam threads can mildew and rot.) Store your tent in a cool, dry place out of sunlight. □

Hollow pole sections *are linked with elastic cord. They snap together for assembly, fold up for packing*

NORMAN A. PLATE

Classic wall tent *is changing: thinner springy poles, lighter materials, scaled-down size*

DAVID STUBBS

Beach bivouac: *rain fly repels dank, salty wind off ocean, also helps stabilize structure on sand*

For people who think they can't afford the life insurance they really need.

Like many young people, you've got big responsibilities and a still-limited income. Bills to pay and a paycheck that doesn't always seem up to the job.

So who can afford more life insurance?

You can.

For young people, New York Life offers a no-frills policy with real savings. And another policy that's a special combination of permanent whole life insurance and lower-cost term insurance.

They're both budget pleasers. Before you compromise your family's financial security, let your New York Life Agent give you full details.

New York Life. For all of your life.

New York Life Insurance Company, 51 Madison Avenue, New York, New York 10010. Life, Group and Health Insurance, Annuities, Pension Plans.

DAVID STUBBS

Computer talk: *calculator attached to telephone beeps energy data to utility computer. The computer replies with cost analysis in spoken English*

Different weatherstrips *cope with different heat-leak problems. Auditor explains choices, sources, costs*

"Hot" setting *on water heater means 160°, often more than needed. "Warm" (140°) may be adequate*

Just how to save energy at home? Ask your utility company for an energy audit

Surprisingly little known, though immensely effective, home energy audits are leading to some big cuts in home heating and cooling bills.

These utility-sponsored, custom-tailored inspections will soon be widely available as part of the National Energy Conservation Policy Act. But several Western utilities are already offering their own versions now, with quick results for participating homeowners. You can be one of them.

All audits have a common feature: a careful walk-through of your home by a trained inspector, to hunt down energy savings. Most of the audits are free. Some utilities use computers to analyze your home, giving you cost comparisons

Now you see him. Now you don't. Flash! I got the shot anyway.

Just when I wanted a second shot of my son Chris on the beach one evening, he did the great cover-up. Which, for me, created an even better shot.

Taking on-the-spot pictures is easy with my Kodak Tele-Ektralite 20 camera. Because the flash is built right in, I'm always ready in a flash to tell my family's stories in sharp, clear pictures.

And with the built-in telephoto lens, it's like getting twice as close. Kodak Tele-Ektralite 20. That's one easy, aim-and-shoot camera.

Kodak Tele-Ektralite 20 camera.

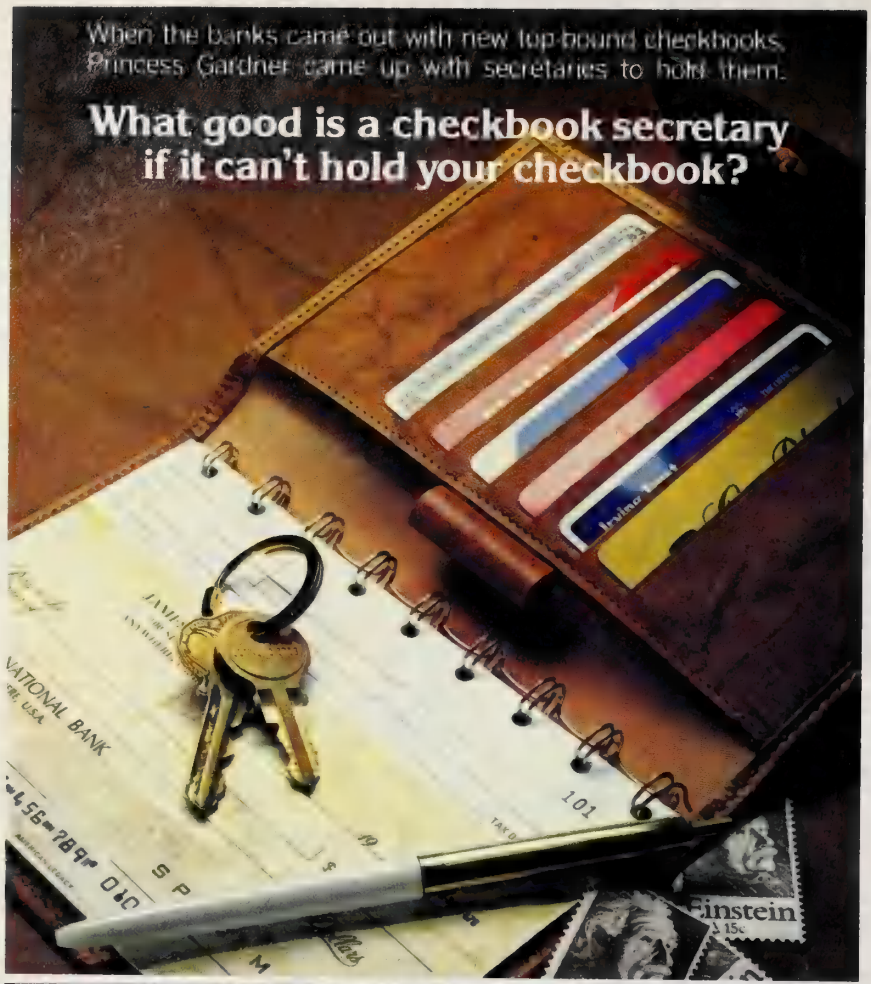
1880 1980

America's Storyteller

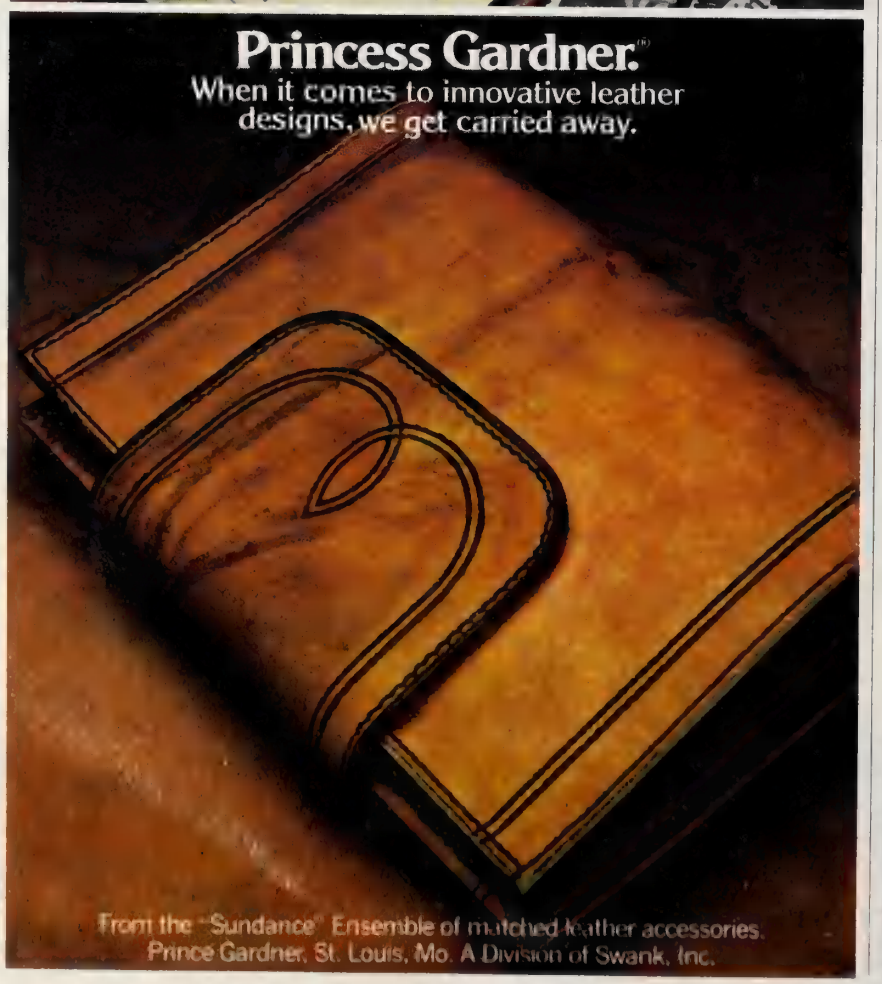
©Eastman Kodak Company, 1980

When the banks came out with new top-bound checkbooks, Princess Gardner came up with secretaries to hold them.

What good is a checkbook secretary if it can't hold your checkbook?



Princess Gardner.(R)
When it comes to innovative leather designs, we get carried away.



From the "Sundance" Ensemble of matched leather accessories.
Prince Gardner, St. Louis, Mo. A Division of Swank, Inc.

DAVID STUBBS

Solar orientation *is shown by compass. This helps tell which rooms may gain winter heat, and which rooms lose most*

to help decide on improvements. Some help you find contractors—and help inspect their work. A few will even lend a hand with financing.

Why trust a utility to help you save energy? There are sound business reasons: most utilities are beset by rising fuel costs, and hard put to finance expensive new facilities to meet growing energy demands. And legislation is encouraging them to become active partners in the effort to lessen dependence on foreign energy supplies.

A *Sunset* team accompanied Rob Talbot, auditor for Northern California's Pacific Gas and Electric, on several inspections averaging about 2 hours per home. The photographs here show highlights. He found many seemingly obvious energy-wasting situations, but also many hidden ones. Their cumulative cost was often considerable.

Can you get an inspection? Check here. We list the larger energy-audit programs now underway in the West:

Seattle. City Light, 625-3237. Full inspection, computerized cost analysis. Sells some materials for energy-conserving improvements at cost; finances some improvements at 6 percent interest (3-year, $1,000 maximum), with 10 percent discount on cost. Contractor referrals. Free.

Portland. Portland General Electric, 226-8497; Pacific Power and Light (through local offices in its Oregon, Washington, Idaho, and Montana service areas). Full

It's happening at American-Standard.

Take a look at the stunning Ellisse Design Theme. A first! Putting its unmistakable mark on an entire, integrated bathroom suite: lavatory, toilet, bidet and bathing pool. And take a look at Tahiti. A subtle, new color for subdued drama in decorating.

More excitement! An enormous 20" deep Ellisse Grande whirlpool bath for two, and two additional Ellisse Grande lavatories. Plus the newest luxury of Dualux fittings. All backed by the American-Standard reputation for quality.

America's bathrooms are coming to life with a world of beautiful new ideas for you. Send $5.00 to: American-Standard Bathroom Planning Guide, Dept. SUN-50, P.O. Box 2019, New Brunswick, NJ 08903 for your personal "Bathroom Planning Guide." Or, visit an American-Standard Distributor Showroom to see these new products. For the name and location of the Showroom nearest you, call toll free **800/821-7700, ext. 4023.** In Missouri, **800/892-7655, ext. 4023.**

America's bathrooms are coming to life!

AMERICAN-STANDARD

World's leading name in plumbing fixtures and fittings.

Cathedralite Dome Homes

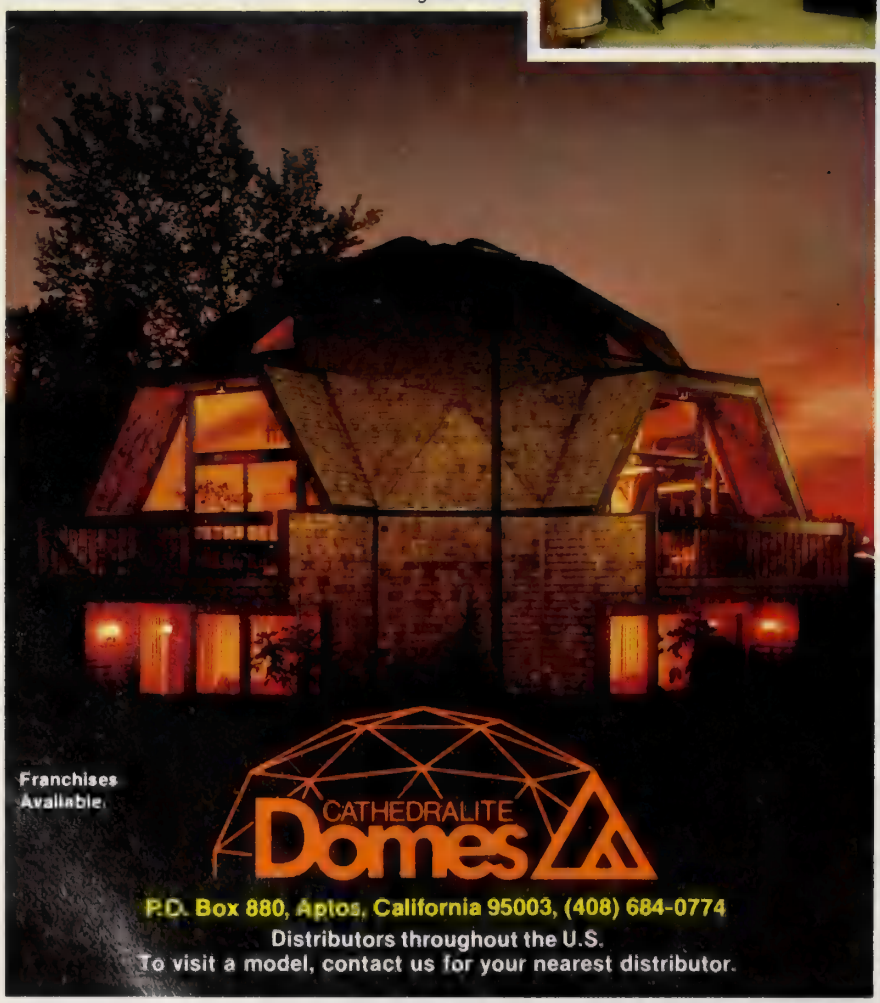
See research recommendation #2396-P of International Conference of Building Officials, verifying conformance to all standard building codes. Major lender financing available in most states.

An exciting new dimension in living!

One, two and three story homes with one to five bedrooms . . .

Dream of a boldly beautiful, spacious home with a skylight open to sun and stars! Dream of a home with no interior support walls, allowing you to plan as you please! Dream of a home so strong it resists earthquakes and so true to Nature it cuts energy bills 30 to 50 per cent compared to conventional housing! The dream comes true in a Cathedralite Dome. Cathedralite helps do-it-yourselfers, or works with your contractor.

Nation's largest manufacturer of residential, commercial & industrial geodesic dome shell kits. Custom commercial designs, unlimited square footage available.



Please send me your 36 page full color book on Cathedralite Dome Homes and the name of my nearest dealer. Enclosed is $4.00 to cover handling & mailing. Floor plans and kit prices included.

Name _____

Street _____ City _____

State _____ Zip _____ Tel # _____

Mail to: Cathedralite Domes • P.O. Box 880 • Aptos, California 95003

(2001 Larkin Valley Rd., Watsonville, CA 95076)

DAVID STUBBS

Attic insulation *will greatly help this older house. Width between joists helps tell what kind is needed*

inspection, written analysis. Improvement financing at no interest and with no repayment due until home is sold. Will help arrange for contractors or provide referrals. Free.

Northern California. Pacific Gas and Electric, (800) 792-8000. Full inspection with computerized analysis. Provides some materials free; finances attic insulation at 8 percent interest. Contractor referrals. Free.

Southern California. Southern California Edison, (213) 572-2074; San Diego Gas and Electric, (714) 239-7511. Full inspection, computerized analysis. Finances attic insulation at 8 percent (through Edison, for all-electric homes only). Free. (San Diego Gas program available on a limited basis.)

Arizona. Arizona Public Service Co., 254-6283 in Phoenix, (800) 352-4032 elsewhere. Full inspection, computerized analysis. Cost: $12.50.

New Mexico. Public Service Co. of New Mexico, 982-4381 in Santa Fe, (800) 432-6881 elsewhere. Inspections plus passive solar analysis for all-electric customers only. Free.

Colorado. Public Service Co. of Colorado, through local division offices. Full inspection, written analysis. Cost $18. □

Metal-frame windows *aren't easy to weatherstrip. Auditor shows one spot: leading edge of sliding panel*

Washes while you sleep.

At Whirlpool, we're always looking for new ways to make your life a little easier. By making our products a little better.

Our latest innovation is a new Delay Timer. It lets you program our new dishwasher to start washing up to eight hours after you turn it on. So you can do the dishes when you don't need the water for laundry or baths.

But that's just one of the features that makes this Whirlpool dishwasher so attractive. The top rack tilts for awkward items. The silverware basket goes in the door—out of your way. You even get the quality of an all-porcelain tub.

And of course it gets your dishes really clean. And does it with Whirlpool dishwasher quietness.

Stop in at your nearest Whirlpool dealer for a closer look at this new dishwasher.

You can load it up after dinner, add snack dishes later, then go to bed.

You'll be soundly sleeping when your new Whirlpool dishwasher starts washing.

Whirlpool
Home Appliances

Quality. Our way of life.

Your old fashioned sweep cleaner is worth $50.00.

Does your present automatic pool cleaner spend hours pushing debris to and fro, only to leave your pool not so clean? Sowbugs, rocks, leaves and other remnants of debris remaining uncollected?

If so, it is time for you to see your Polaris Vac-Sweep® dealer. He or she will show you results from an independent testing laboratory study proving that Polaris Vac-Sweep is by far the most effective automatic pool cleaner. Collecting three times as much debris as the best known sweep type cleaner. Doing so in half the time (three hours or less).

And now Polaris Vac-Sweep, the only automatic pool cleaner to both *vacuum* and *sweep* even while your pool cover is on, offers you a $50 factory rebate when you trade your old-fashioned Pool Sweep,® Antho-Sweep,® Jet Sweep,® Posi-Clean® or Jandy Sweep® up to the modern Polaris Vac-Sweep.

Compare price. Performance. Operating costs. Anything you want. Polaris Vac-Sweep has to be your choice.

When you're ready for a really clean pool; you're automatically ready for Polaris Vac-Sweep.

To qualify for your $50 trade-up factory rebate
Bring this ad to your dealer. Purchase a new Polaris Vac-Sweep. Send to Polaris Vac-Sweep the complete head (no float arms or hoses) of your old cleaner, our filled out registration card and copy of your dealer receipt. Enjoy your really clean pool.

POLARIS VAC-SWEEP®

P.O. Box 5[illegible] 15[illegible] Oxnard Street / Van Nuys, California 91405 (213) 782-7772

NORMAN A. PLATT

Hidden appliances—*dryer on left, washer on right—sit behind enclosure finished to match wall. Closed, it's a sideboard*

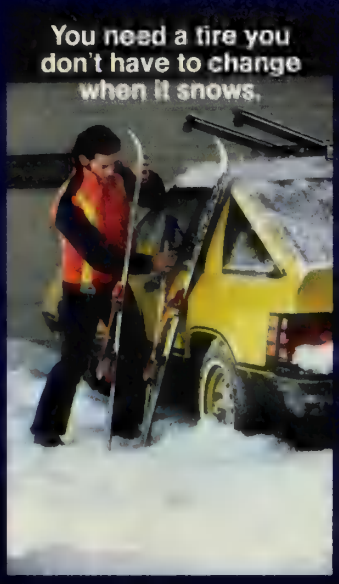
Hideaway for their laundry

You'd never know a washer and dryer are concealed in Fil and Don Drukey's dining room in Malibu, California. The enclosure you see here so perfectly disguises the appliances that it also serves as a sideboard.

Built of ¾-inch plywood, the unit is faced with ¾-inch resawn cedar paneling to match the wall. The dryer opens from the front, the washer from the top on recessed hinges. Cabinets flush to the wall store detergents and the like. The washer/dryer cover lifts off in case the appliances need servicing. The paneling is stained and finished with clear matte urethane. ▫

Goodyear Technology brings you a new steel-belted radial for the 80's.

ARRIVA



You need Arriva radials.

Arriva is the response of Goodyear's scientists and engineers to the challenge of the 80's.

It is a new and different kind of tire. In its shape. In its tread. In its appearance. And it offers you a unique combination of features never before available in just one Goodyear tire.

Arriva is being made in a wide range of imported and domestic sizes, for front- and rear-wheel drive.

And Arriva is available right now – to give you a great start on the 80's.

Even its footprint tells you it's different.

GOODYEAR

Out front. Pulling away.

Offsetting *platforms gives lower berth more headroom. Clothes hang from rod at one end*

NORMAN A. PLATT

Friendly play *and private times are both accommodated by this fanciful bed unit*

High-low sleeping in children's rooms... ideas from a new how-to book

Sleeping is almost incidental to these two sets of bunk beds. One, an open, contemporary-looking structure, has an inviting play deck above and a supplementary clothes pole at one end. The other, more dreamingly old-fashioned, is curtained for cozy privacy or inventive puppeteering. Six spacious drawers hold clothing, toys, and games.

The wood structure shown at the top of the page, designed by architect John Schmid, may look built in, but it is actually a freestanding unit fastened together with lag screws and bolts. Parts are clear fir 2 by 6's, 2 by 3's, 2 by 2's, and 1-inch dowels, with ½-inch plywood supporting each mattress. A power saw, dado blades, drill press, and power sander make construction easier, though it's possible to build the unit with hand tools only.

Adding curtains to a standard bunk-bed structure like the one above is literally child's play. Sisters 10 and 11 years old painted the plywood beds (bought at an unfinished furniture store), then attached homemade curtains with spring-loaded metal curtain rods.

These two beds are some of the many designs in the newly revised *Sunset* book *Ideas for Children's Rooms & Play Yards* (Lane Publishing Co., Menlo Park, Calif. 94025, 1980; $3.95). The colorful 96-page book contains dozens of practical, lively ideas for planning, decorating, and furnishing children's bedrooms, closets, and play rooms, as well as simple instructions for building swings and other outdoor play structures. □

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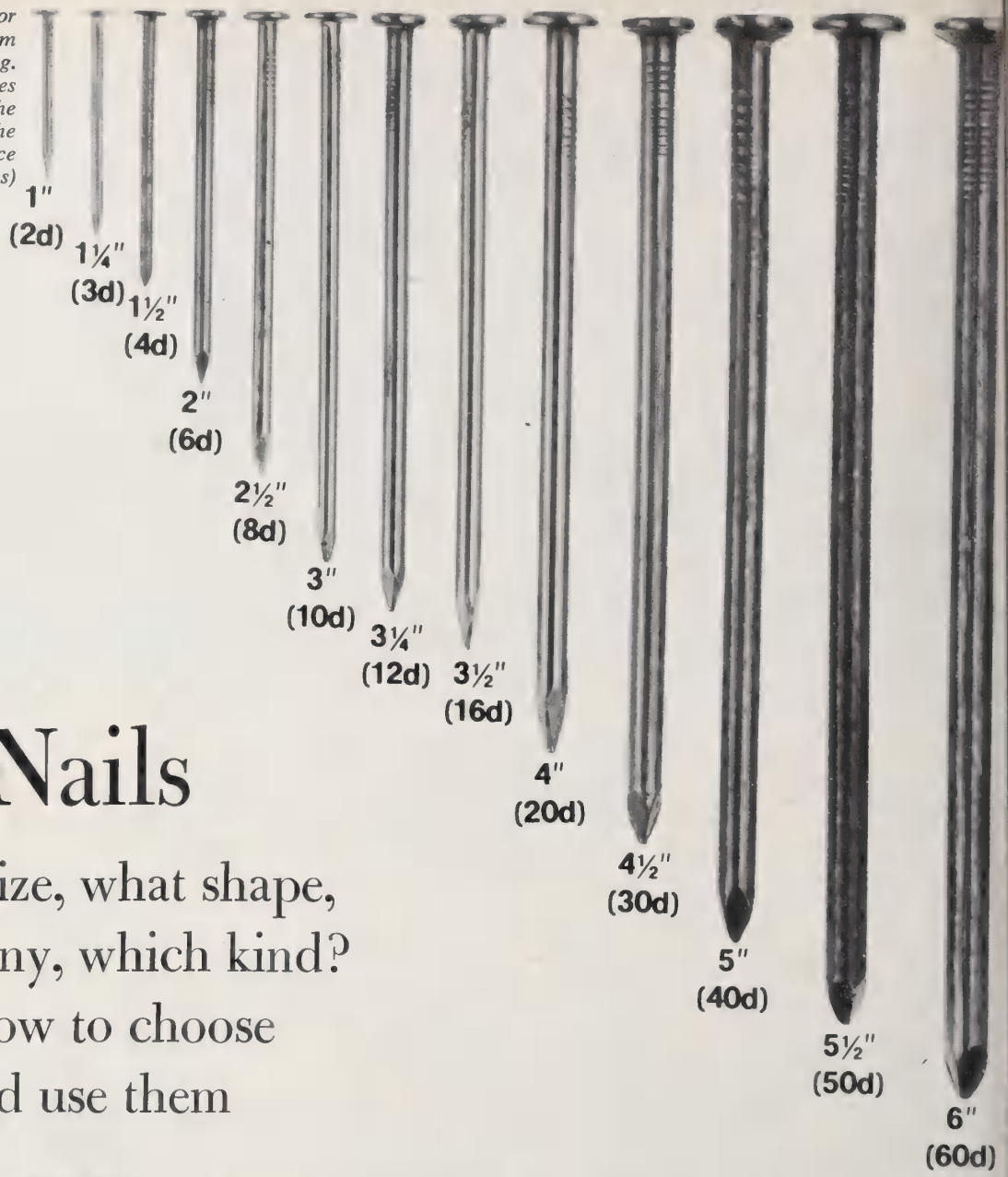
The full range *of sizes for the common nail runs from 1 inch to 6 inches long. The figure in parentheses (2d, for example) is the nail's "penny" size (d is the abbreviation for penny, once the price of a hundred nails)*



Nails

What size, what shape, how many, which kind? ... how to choose and use them

NORMAN A. PLATE

Protective goggles *are a must when you drive case-hardened concrete nails, which can break, chip, or bounce up*

A nail's job is quite simple: it fastens things together. Nails are inexpensive, relatively easy to use, and when used correctly they do what they are supposed to with little complaint.

But no one nail can do it all. A visit to the nail department of most hardware stores will introduce you to a vast array of sizes and shapes. Most likely, the nails you'll see are the most commonly asked-for varieties and sizes, but there are scores more to choose from, some with as specific and esoteric a job as the beer case strap nail.

Generally, there is a right size and shape of nail for each job. Here and on the following pages we picture a selection of nails that are most useful around the house. You won't find them all at a hardware store, though; you may have to check at building supply shops.

The photograph above shows the size range of the common nail—the kind most widely used. A good guideline for selecting the right length nail: it should be two to three times as long as the thickness of the piece of wood it is to be driven through. (Drive nails through the thinner to the thicker piece.)

How many nails do you need?

When you're facing a job requiring regularly spaced nails (roofing or adding a deck), you can often calculate the number of nails you'll need (add in a 10 percent surplus to be sure). Nails are sold in 1-, 5-, and 50-pound boxes, or loose in bins at some stores. A salesman can help you determine how many pounds of nails you'll have to buy, but here's the approximate number of common steel nails you'll receive per pound:

2d (847)	8d (101)	20d (30)
4d (296)	12d (66)	40d (17)
6d (167)	16d (47)	60d (11)

Nails are made from a variety of metals, but the most common is steel. Aluminum, bronze, and brass are other widely

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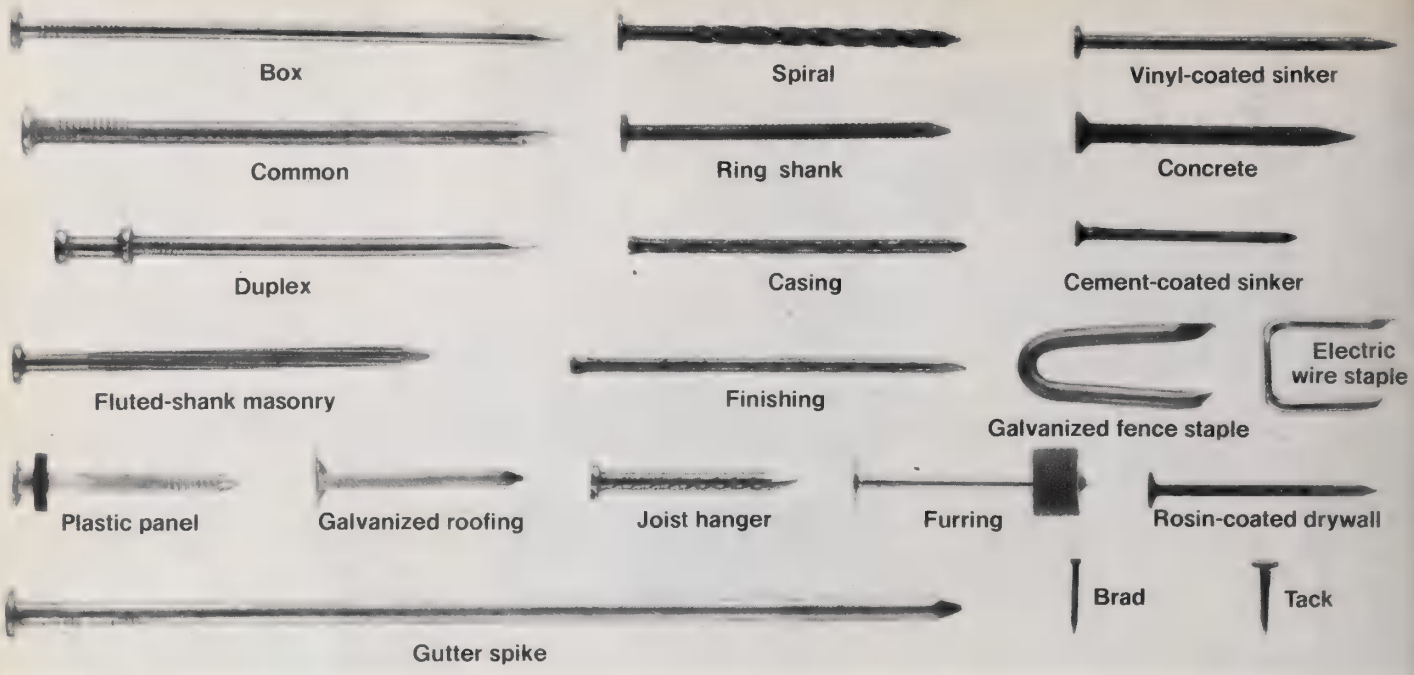

These 21 different kinds *of nails can handle most chores around the house*

NORMAN A. PLATE

used metals. When fastening metal materials, it's a good idea to choose a nail made of the same metal. This reduces the corrosive action that can take place when dissimilar metals come in contact. Following are descriptions of the nails you're likely to encounter and their uses.

Most frequently used nails

Common. This is the favored nail for heavy construction because its extra thick shank has greater strength than most nails. Its thick, wide head spreads the load and resists pull-through—and it makes a good target. Common nails over 6 inches long are called "spikes" and are priced by length. (An 8-inch spike costs about 80 cents.)

Box. Similar in use and shape to the common nail, but with a slimmer shank. These are less likely to split wood, but they're easy to bend unless you're experienced with a hammer.

Finishing. Use them when you don't want the head of the nail to show. After you

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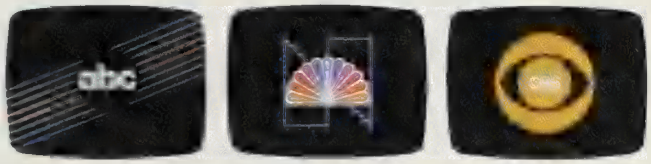

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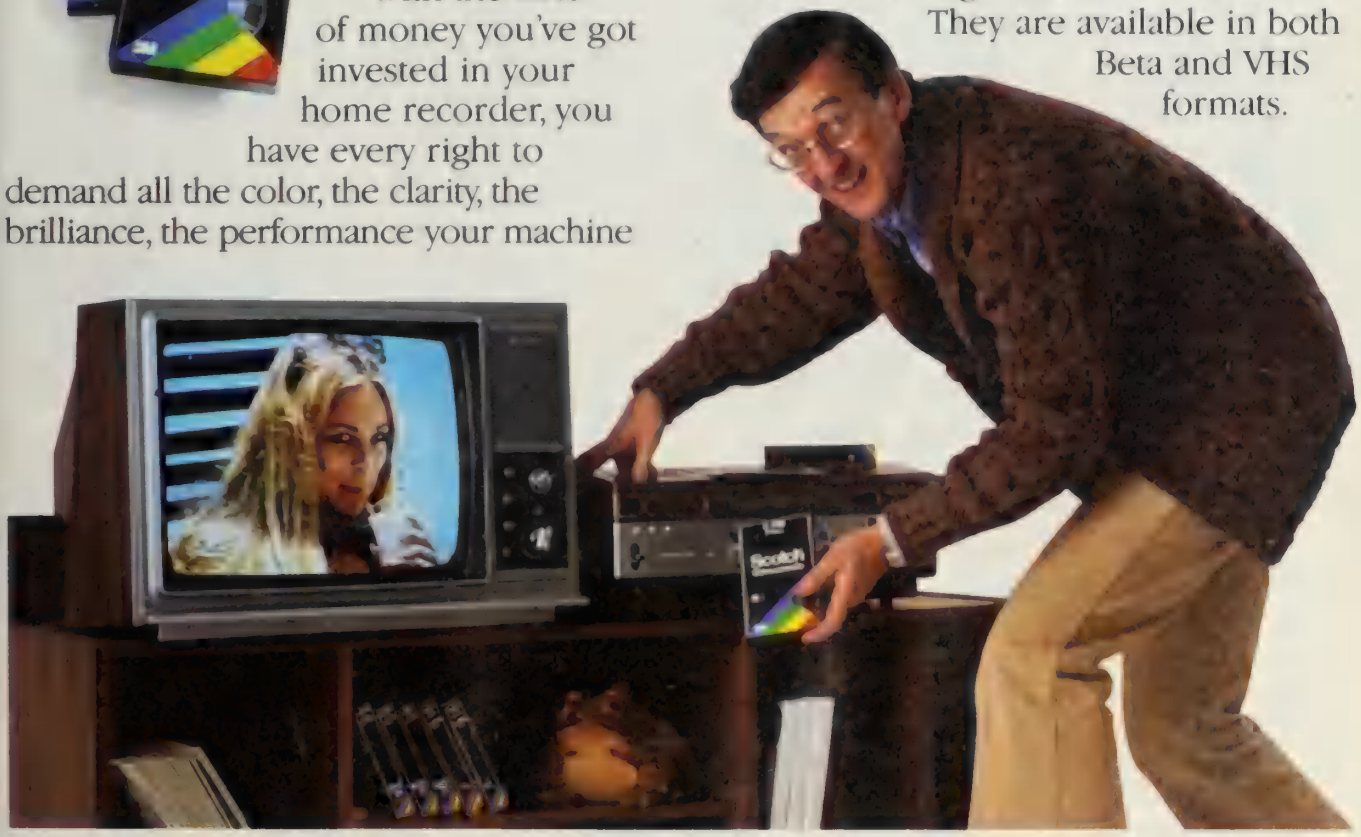

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No squashed fingers *this way. Set small brads in lightweight cardboard, tap with hammer to start, then remove cardboard*

drive them flush, sink their slightly rounded heads with a nail set, then cover with wood putty.

Casing. Similar to the finishing nail, these have a thicker shank, more angular head. Use them for heavier work such as adding casings around doors, setting flooring. They can be hard to find.

Special-use nails

Spiral. These have a spiraling grooved shank like a screw. As you drive them into wood, they rotate slightly for better holding power. Use in laying hardwood flooring—they won't back out.

Ring shank. (Also called annular-ring nails.) Its closely spaced, grooved shank provides increased holding power, especially in softer woods. Most commonly used in hanging gypsum wallboard.

Rosin- or cement-coated drywall. Like ring shank nails, these nails (from 1¼ to 1⅝ inches long) are used to apply gypsum wallboard. The head is slightly beveled on the underside and hollowed on the top to make it easier to sink the nails below the surface of the wallboard.

Duplex. This double-headed nail is used for temporary work (making concrete forms). Drive the nail tight against the lower head; when construction is finished, remove the nail by pulling its upper head.

Fluted-shank and concrete masonry. They're useful for securing sole plates for stud walls to concrete (as shown in the small photograph on page 134); or for securing furring strips to masonry. They're case-hardened for extra strength. If improperly struck, they can sometimes break (always wear protective goggles when driving them).

Vinyl-coated sinker. (Sometimes called resin-coated.) The coating helps the nail slide easily into older (harder) softwood or hardwood. The sinker head, slightly beveled on the underside, lets the nail sink flush to the surface of the wood. (Some carpenters prefer to scrape a nail on paraffin instead of using vinyl-coated nails.)

Cement-coated sinker. A thin coat of cement gives these sinkers added holding power, like the spirals or ring-shanked detailing on other nails.

Joist hanger. Their thick short shanks have a barbed texture for increased holding power. They're used to join wood with metal connectors, such as joist hangers or right-angle brackets.

Plastic panel. This lightweight aluminum nail with a neoprene washer makes a watertight seal on corrugated plastic panels. (It's a good idea to reinforce paneling from below with wiggleboard.)

Galvanized roofing. These nails have wide heads for maximum holding power in a variety of roofing materials (asphalt or fiberglass shingles).

Furring. Wide-headed nails with small composition washers that hold stucco wire up to 5/16-inch off the surface of the building's sheathing.

Electric wire staple. Flat-headed staples used to secure nonmetallic cable to wood framing material.

Fence staple. U-shaped galvanized staples hold wire fencing to wood posts.

Brads. Resembling miniature finishing nails, they're useful for securing molding to cabinets and walls. Heads are usually

NORMAN A. PLATE

Why blunt tip *with a tap of the hammer? It helps prevent splitting wood with thick nails*

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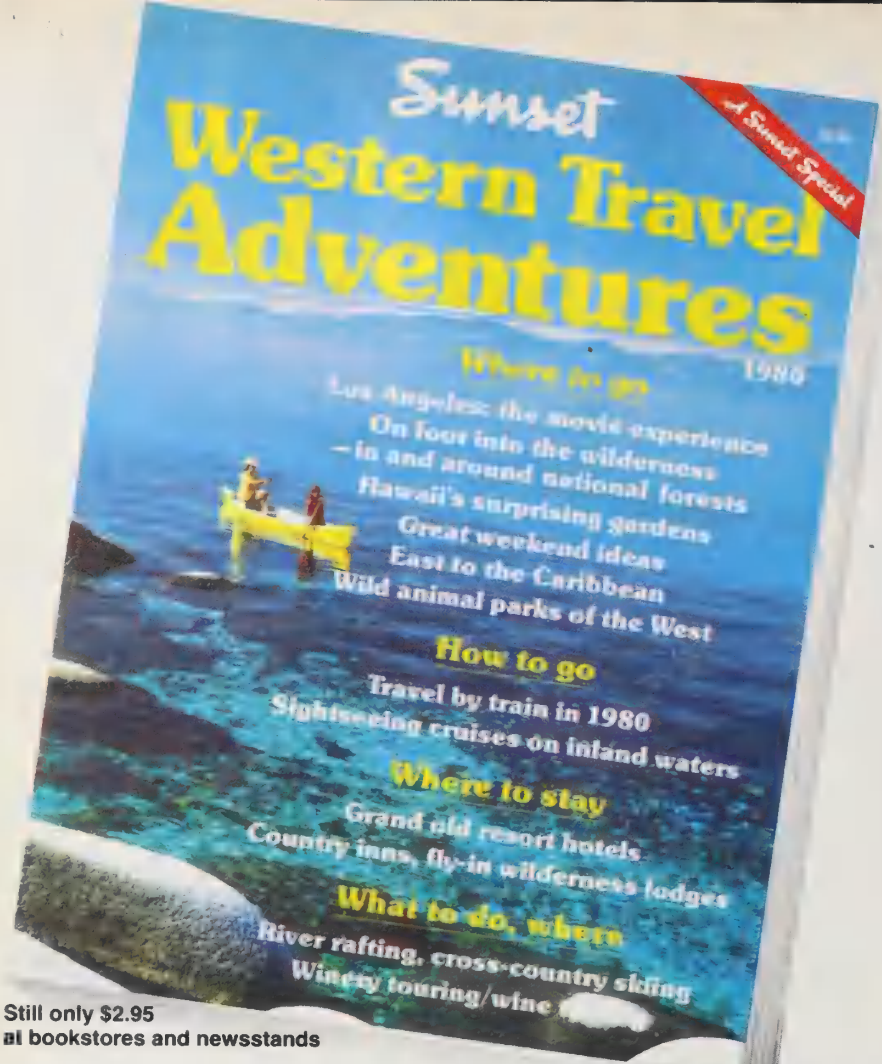

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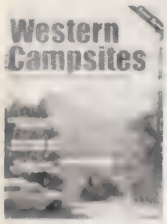

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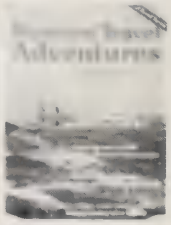

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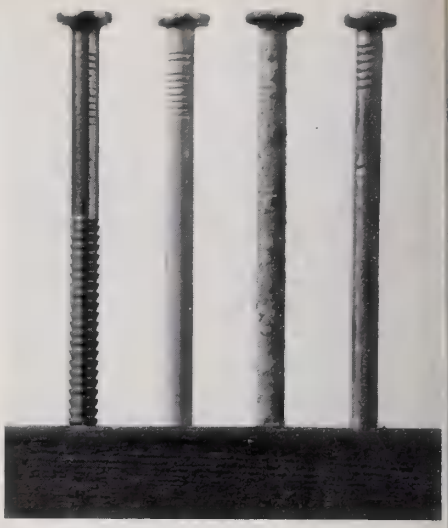

Nails for decks, *from left: ring-shank stainless steel, aluminum, hot-dipped galvanized, electroplated (if thinly coated, these can cause staining)*

countersunk and covered with wood putty.

Tacks. They fasten fabric or carpeting to wood. Most have a cut shank to prevent rotation.

Gutter spike. Used for attaching and supporting gutters, these long spikes are sold in lengths up to 10½ inches with a shank diameter up to ¼ inch.

Proper nails won't stain your deck: here are stainless choices

Nothing can mar the appearance of a deck more than nail stains. Uncoated, electroplated, or improperly dipped galvanized nails (coating chips off when the nails are driven) are usually the culprits. Staining can be reduced to some degree by countersinking the nails about 1/16 inch. But using the correct nail when you build is really the best solution.

The California Redwood Association recommends high-quality, hot-dipped galvanized, aluminum, or stainless steel nails. The stainless steel or aluminum nails will not stain, but they cost about three times more than galvanized nails. They're hard to find; you'll probably have to special-order them at a building supply store.

Proper nailing technique can avoid other problems in decks. If you drive the nails at a slight angle, they'll hold better than those driven straight in. (Angling two nails toward or away from each other in a 2 by 6 or 2 by 8 is even better.)

If you're nailing close to the end of a piece of lumber, predrill a hole about three-quarters the diameter of the shank so the wood will not split. Also, you can avoid splitting along the board by not nailing in a straight line. Stagger the nails from side to side down the length of the board to reduce the chance of splitting and cupping. ◻

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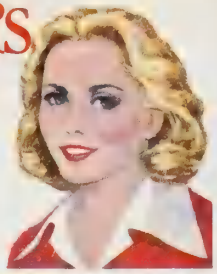
from Mary Willis



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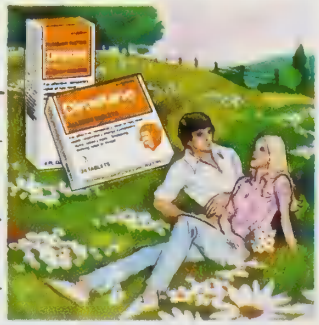

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NORMAN A. PLATE

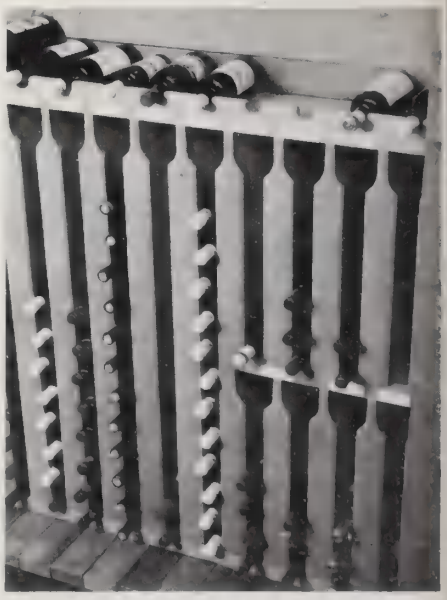
With minimal investment, *unfinished basement became a wine storage/tasting room*

Under seismologist's house, a quake-resistant wine cellar

Wanted: a storage area for wine, seating for a wine-tasting club, and storage racks as resistant as possible to earthquakes (the homeowner is a seismologist).

Architect Ron Bogley fulfilled these requirements in a wedge-shaped space under Dottie and Tom McEvilly's house. Their basement had an unfinished wall on one side, a sloping dirt bank on the other. To minimize cost, the floor area was graded and leveled, then covered with gravel. Walls were insulated with fiberglass and paneled with rough-sawn redwood.

Two 5-foot storage racks on one wall hold up to 400 bottles of wine securely, while a 4-foot-high platform built into the opposite slope stores 20 cases. □



Designed to guard *against lateral jolts from earthquakes, racks are vertical 1 by 10's faced with 1 by 3's shaped so bottles slide up and out*

Flat rocks *set on pebble floor support bench and storage platform. Large rocks piled behind bench conceal dirt bank*

Seville Elegante in Canyon Rock and Desert Sand Firemist.

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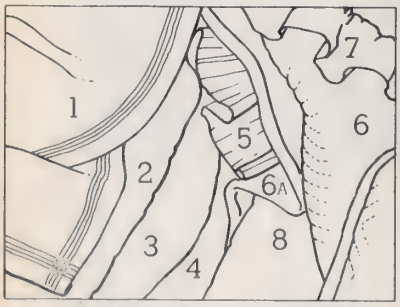

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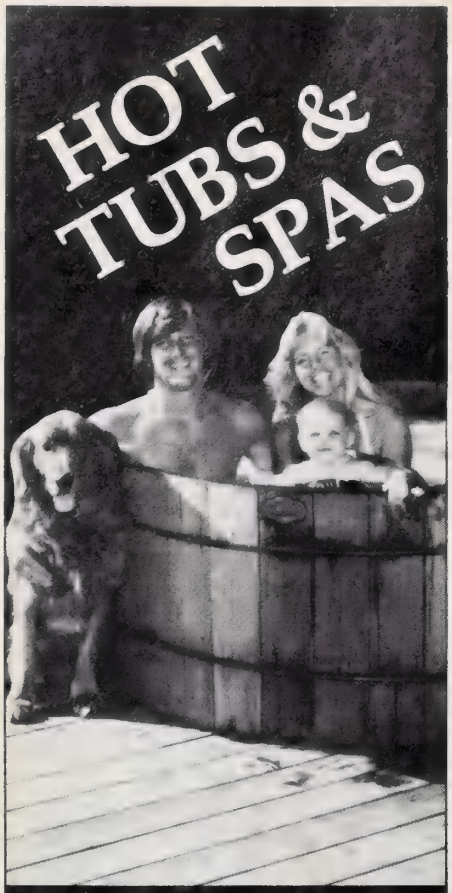

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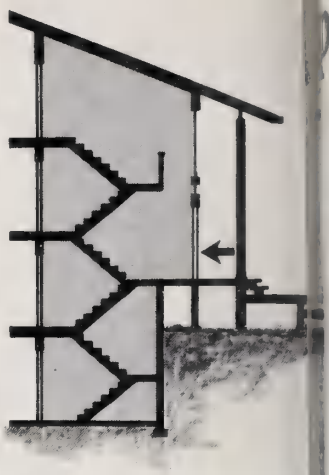
CALIFORNIA COOPERAGE

DOW NORMARK



Stairs zigzag *on the inside of the sealed box, connecting four generous landings*

Front entrance *is to an air-lock stairwell between second and third floors (first floor doesn't show)*

They heat the house, not stairwell

An unheated stairwell that can be sealed off from the living spaces it connects is a winter heat-saver and summer cooling vent for Anastasia Thompson of Bainbridge Island, Washington.

Designed by Seattle architect Jim Daly, this energy-conserver is simply a four-story box set like a tower against the front of the house. Entry to the house is through the insulated stairwell, so it also serves as an air lock between inside and outside.

In winter, big sliding doors at each landing are kept shut when they're not being used, to retain at each level the heat provided by a central forced-air system. In summer, the sliding doors stay open; hot, stuffy air inside the house rises up the stairwell and vents out through a window at the top, much like warm air going up a chimney.

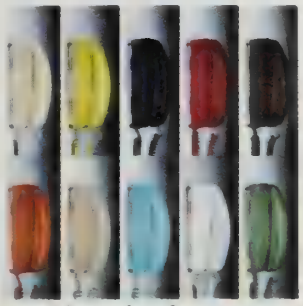
Double-glazing of all glass panels, plenty of caulk, and heavy insulation through the rest of the house all help put the stairwell concept into efficient practice. ◻

Each landing *is closed—or opened—to the house by double-glazed doors that slide on barn hardware. Carpet flap seals gap*

The Trimline telephone puts the whole phone in your hand.

It's the perfect kitchen phone. The dial and the disconnect button are in the handset. So you can stand at the stove and make as many calls as you want and never run back to the base. Not to dial. Not to hang up between calls.

It's compact, so you can mount it practically anywhere. And you can choose from a variety of optional cord lengths.



It's perfect for convenience and good looks. It comes in 10 decorator colors, including new rust and chocolate brown. And most colors are available with rotary or Touch-Tone calling.

It's the ultimate in convenience. Everything you need to make call after call is in your hand.

And you know you can rely on your Trimline phone. It's made by Western Electric with all the reliability you expect from genuine Bell products.

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IT'S FOR YOU

1 • *Scatter pebbles evenly over freshly finished surface while you stand on boards set on forms*

2 • *Tamp pebbles into concrete with a wood float until they're buried. He's leaning on another float*

3 • *Brush and hose surface to expose pebbles after they're set. Keep concrete damp two to three days*

PETER O. WHITELEY

Finished patio. *After curing, it was washed with muriatic acid (10 percent solution) to clean pebbles, then rinsed. Surface appearance improves with age as concrete darkens and pebbles shine. For more heavily seeded look than this, just scatter more pebbles*

Pebbles underfoot. You "seed" wet concrete

Seeding concrete sounds like an impossible horticultural achievement. But in reality, it's a method of surfacing concrete to give a walk, patio, drive, or any formed pad a special look and texture. You lay down the concrete in the usual manner, but you add a topping of handsome smooth pebbles—"seeds."

Here you see concrete contractor Tom Sako and his assistant at work seeding a new patio in Los Altos, California. His methods are well within the capabilities of most homeowner-landscapers. However, it might be wise to try your hand first on a small new patch of concrete located where mistakes won't show or matter (try seeding a side-yard walk or perhaps a slab underneath a clothes-drying line).

The fussy part is knowing when the concrete that surrounds the seeded pebbles is set enough to hold them in place yet soft enough to be hosed and brushed away. The interval may be an hour or so, depending on how hot a day it is. Test a seeded area by gently moving a stiff-bristled push broom over the pebbles to see if any dislodge.

You can buy sacks of decorative pebbles from most garden supply centers. A cubic-foot sack will cost $3 to $10, depending on color and availability. □

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ARKLA GASGRILLS for All the Pleasures of Cooking Out

PETER O. WHITELEY

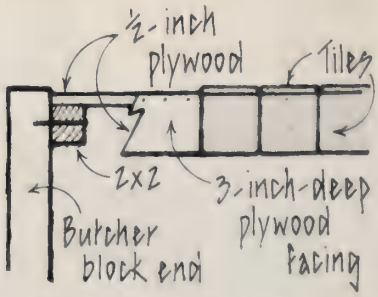
Ocher-colored tiles *accent the top of this 52¼-inch-long coffee table. No grout was used between tiles*

A butcher block cut up into legs

A ready-made butcher block became the legs for the tile-covered coffee table shown above. Owner-builder Allen Beck of Belmont, California, ripped the 30-inch-long butcher block to match the width of six 3-inch-square tiles (18¼ inches) and then cut it in half.

The top of the table is 6 rows of 16 tiles, which are about ¼ inch thick. Mastic holds the tiles to top and side pieces of ½-inch exterior plywood set ¼ inch in from top and sides of the legs. (This makes the surface of the tiles flush with the legs' edges.) Before gluing on the tiles, Beck nailed the plywood to 2-by-2 support blocks secured to the inside of the ends (see sketch). Total cost of the project was about $100.

When making a similar table, be sure to check layout of tiles and then trim width of plywood top to an exact fit (less the thickness of two side tiles). Sand, then finish butcher-block ends with a penetrating oil. □



Side and top pieces *of plywood nail to 2-by-2 end support. Side piece helps prevent side-to-side racking when table is moved*

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This Chippendale bombé secretary, *circa* 1755, represents the ultimate in uncompromising standards of quality and handcrafting. To maintain this level of excellence, only 240 have been produced. Each to be numbered and registered in the name of the original owner. To become one of those few who will own this Heirloom, write for the name of the dealer nearest you. Drexel Heritage Furnishings Inc., Dept. 16-5-80, Drexel, N.C. 28619.

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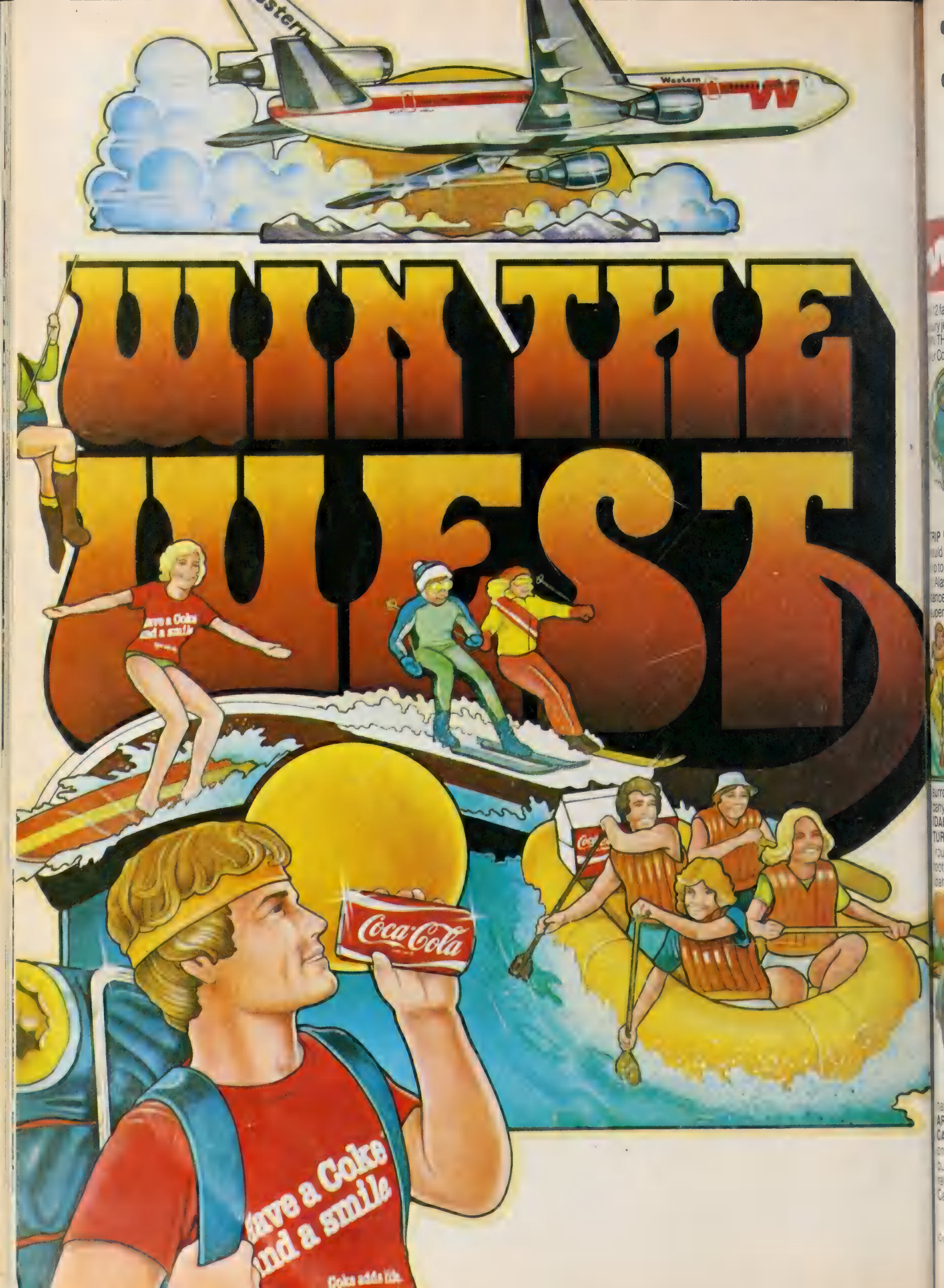
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ave a Coke
nd a smile
Coke adds life.

Have a Coke and a smile.
You could win the west.

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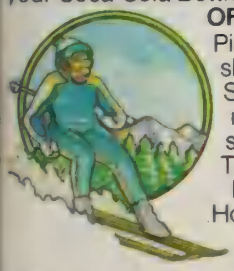

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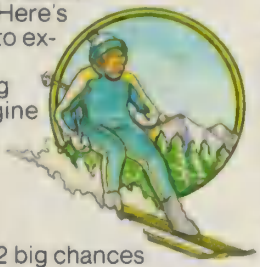
NEVADA/SQUAW VALLEY Here's a chance to experience one of the world's most exciting ski adventures. Imagine yourself at Lake Tahoe, in Nevada's Squaw Valley!



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1. Fill out the official entry blank or on a plain 3 x 5 piece of paper write your name, age, address (must have zip code) and phone number and mail to Win the West Sweepstakes, P.O. Box BK, Chicago, IL 60677. NO PURCHASE NECESSARY TO ENTER.
2. You *must* indicate which of the 12 sweepstakes listed in this advertisement you wish to enter, either on official entry blank or 3 x 5 alternative entry blank. Additional official entry blanks are available where you shop for delicious, refreshing Coca-Cola or by sending a separate, self-addressed stamped envelope to Win the West Entry Blank, P.O. Box 4448, Chicago, IL 60677 (requests for entry blanks must be received by May 15, 1980).
3. You may enter as many of the sweepstakes as you like, as often as you like, but only one sweepstakes per entry. The name of the sweepstakes must be printed on the outside back of the envelope. Only one entry per envelope will be accepted, and each envelope must be separately stamped and addressed by hand.
4. Entries must be received by midnight June 30, 1980 to be eligible. Each entrant assumes responsibility for delivery by the post office.
5. First prize winners for each sweepstakes will be determined in a random drawing on July 6, 1980 from all eligible entries received for each sweepstakes. All other prizes will be determined in a random drawing on July 11, 1980 from all eligible entries without regard to sweepstakes entered.
6. We will not accept entries prepared by machine, computer or otherwise mechanically reproduced. Entries that are misaddressed, illegible or do not conform to all rules will likewise not be accepted.
7. You must be 13 years of age or older to enter. If a first prize winner of a trip is a minor, he or she must be accompanied on the trip by a parent or legal guardian. Only one prize per household.
8. Your chance of winning any prize depends upon the number of entries received from you and others. All prizes will be awarded. Winners may be subject to proving eligibility.
9. Winners will be notified by mail within 30 days after the drawing and after verification of eligibility. Winners must notify sweepstakes headquarters by August 15, 1980 of their acceptance of prizes. Additional drawings will be held, if necessary to award unclaimed or unaccepted prizes.
10. Prizes are non-transferable and no substitute prizes or cash equivalent is offered. For a list of winners send a self-addressed, stamped envelope to: Win the West Winners List, P.O. Box CC, Chicago, IL 60677. Request for winners list must be received no later than August 30, 1980.
11. Prizes must be accepted and utilized subject to availability and prior to December 31, 1980. Only air fare, hotel accommodations, specified meals and certain designated activities are included. All other expenses are the responsibility of the winner.
12. Winners are responsible for all local, state and federal taxes. Void where prohibited.
13. Winners agree that The Coca-Cola Company, its Bottlers, Western Airlines, their advertising or promotional agencies or employees shall have no liability in connection with acceptance or use of prizes or parts thereof.
14. All entries become the property of Coca-Cola USA. Winners agree to allow use of their names, addresses, likeness and prize information.
15. This sweepstakes is open only to residents of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. This sweepstakes is not open to employees and their immediate families of The Coca-Cola Company, its Bottlers, Western Airlines, their advertising agencies and the judging organization.

Win the West Sweepstakes
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Mail to: **Win the West Sweepstakes**
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Address _____

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Entries must be received by June 15, 1980. Print name of sweepstakes you are entering (prize trip you prefer) on the back of your entry envelope.

☐ I certify that I am 13 years of age or older.

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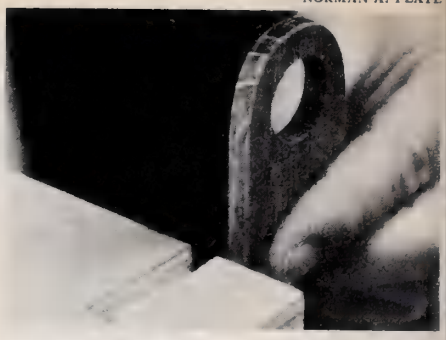
NORMAN A. PLATE



Hardwood door pull *contrasts with Douglas fir cabinet face; it's glued into a notch cut in the door. Entire unit is finished with oil-based sealer*

Oak door pull ... idea from Italy

Appealingly simple and functional designs characterize present-day Italian kitchens. The door pull pictured here is adapted from one we saw recently in Milan's kitchen showrooms.

To duplicate the pull for a ¾-inch-thick cabinet door, you'll need a piece of oak ¼ inch thick (oak flooring works well), 1½ inches wide, and 2½ inches long.

Mark the center of the door pull, ¾ inch from one end. Using a ¾-inch bit, drill a finger hole that is centered on this point. To round the end, mark the curve, place wood in a vise, and shape with a coping saw, then file and sand smooth.

An inch or so in from the edge of the door face, mark and cut a vertical notch 1½ inches deep and just wide enough for the piece of oak to fit in very snugly. Glue the door pull into the notch with white glue. To further anchor the pull, you could drive a finishing nail in from the side of the door.

For a drawer pull, center the notch in the top edge of the drawer face. ◻

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Introducing Main Street Paneling.

Main Street™ is the new Weldwood® paneling that can give any room in your home an authentic maple flavor.

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FROM Sunset FILMS:

In Arab Lands:

An Age of Change

Award-winning 28-minute 16mm color film available on free loan to organizations

How to borrow this film

Clubs and organizations may borrow this film through these offices of Modern Talking Picture Service: **Los Angeles** 90038—1145 N. McCadden Pl., (213) 469-8282; **San Francisco** 94105—149 New Montgomery St., (415) 543-4075; **Seattle** (Tukwila 98188)—1028 Industry Dr., (206) 575-1575; **Denver** 80204—1200 Stout St., (303) 573-7300; **Honolulu** 96819—205 Kalihi St., (808) 848-0809; **Vancouver, B.C.** V6J 1L7—1572 W. 4th Ave., (604) 736-8331.

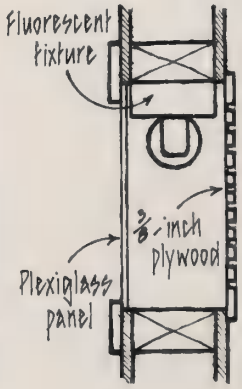
Films by *Sunset*?

Yes, *Sunset* produces sponsored motion pictures for some of America's best known and most prestigious firms—films on travel, food, health, and other subjects; prize-winning films that teach, entertain, and inform audiences in theaters, on television, and at all kinds of group meetings. If your company is interested in working with *Sunset* to make a film, contact *Sunset* Films, 625 Market St., San Francisco 94105; (415) 495-4555.

What happens when an ancient land, unchanged for centuries, takes a giant step into the future? The dramatic answer, now unfolding in the lands of the Arabian Peninsula, is portrayed in this new motion picture sponsored by the Bechtel Group of Companies. Filmed by a SUNSET Films crew in Saudi Arabia, Kuwait, the United Arab Emirates, and Spain, "In Arab Lands" describes the land, history, Arab contributions to Western knowledge, and the changes taking place today as the region absorbs the economic and industrial effects of its vast petroleum resources. "In Arab Lands" has already been honored with the top awards in two major film competitions.

PETER O. WHITELEY

Two-way *entry light has exterior panel of plexiglass sealed with silicone caulk. Inside, slots cut in a plywood panel diffuse the light*



Indoor-outdoor entry light

Standing in a cutout between wall studs, one fluorescent tube lights outside and inside the entry of this vacation house in Point Reyes, California. It's an inexpensive but efficient two-way lighting device you could adapt for an area like the side entrance to a garage.

The outside facing is a 10- by 54-inch panel of translucent ⅛-inch plexiglass held in place by a sill at the bottom and by lattice strips at sides and top.

The inside panel, a piece of ⅜-inch plywood, has fourteen ¼-inch slots to soften the light; they were cut on a table saw with a dado blade. Four screws hold the panel in place; removing them gives access to the 48-inch-long tube. ◻

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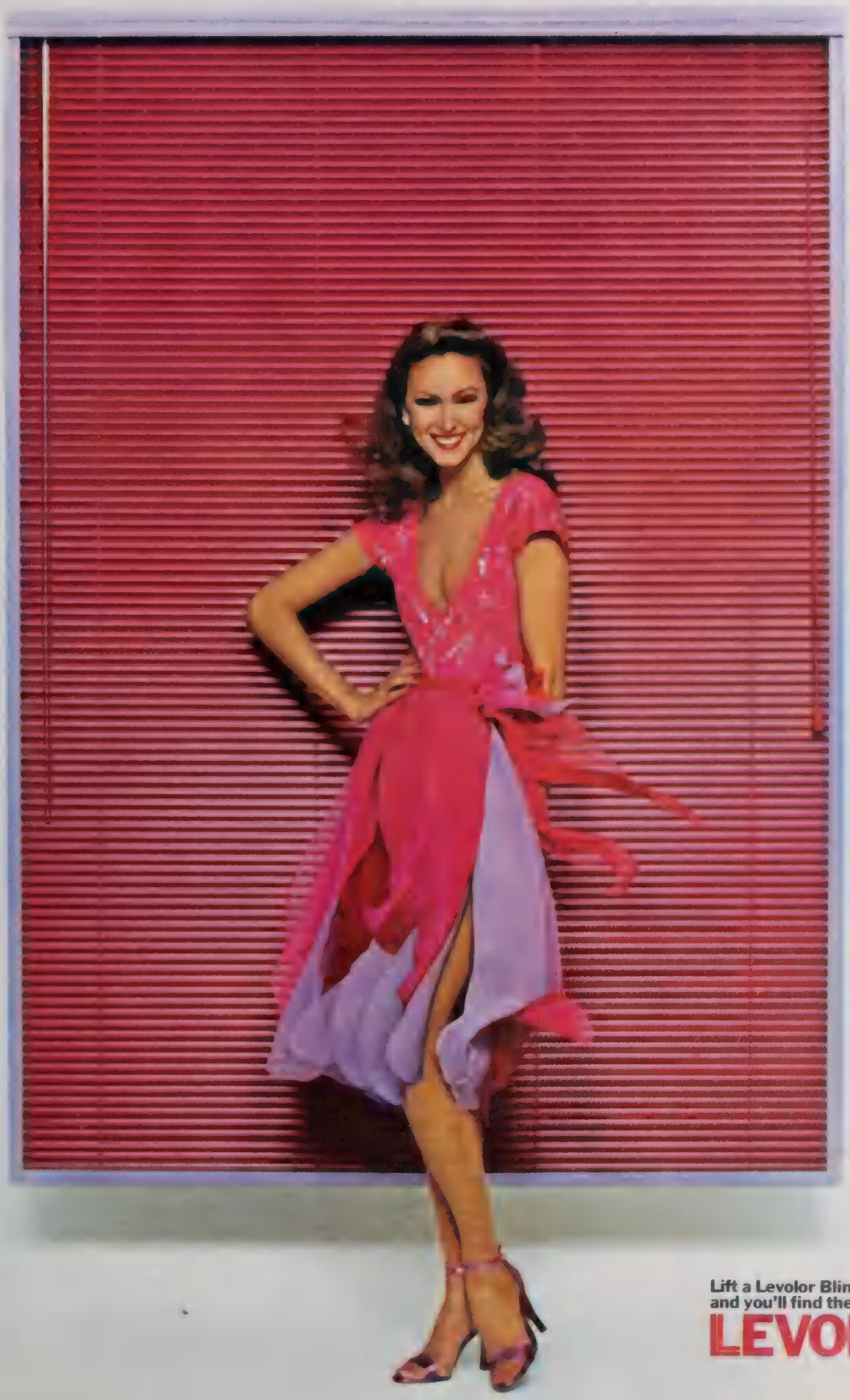
Real Red blinds with a Wisteria Color Edge. Wisteria blinds with a Pink Color Edge. Pink with matching Pink or Plum or any color combination you choose. It's the new way to dress your windows. "Definition™" frames Riviera™ Blinds by Levolor with the same color or a contrasting color. And there are hundreds of Levolor colors. You can match any decorating scheme or dream up a new one. The original she's wearing is designed by Giorgio Sant'Angelo. The original the window is wearing is a Levolor Blind with "Definition." For the name of your nearest dealer, call 800-477-4700 (in Ill. 800-322-4400). Or write to Levolor Lorentzen, Inc., 720 Monroe St., Hoboken, N.J. 07030

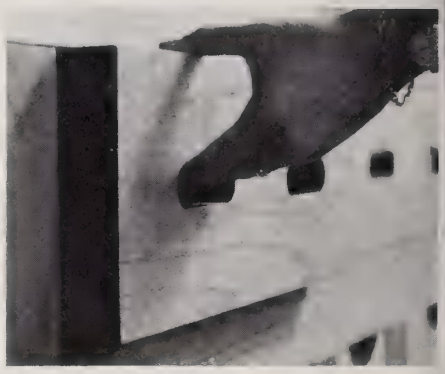


Lift a Levolor Blind
and you'll find the Levolor name.
LEVOLOR

Window addition, *supported on oak 2 by 6's, opened up exterior wall. Central work island has an oak-rimmed tile counter with a broad stripe of chop block*

TERI SANDISON

Knife-rack niche *in work island is the depth of an oak 1 by 3; blade slot was made by table saw. Oak plywood backs the niche*



Open hand-pulls *in oak-faced drawers were cut with coping saw*

Buffet arch *cut in foot-thick wall echoes arched doorway from kitchen to dining area. Open shelves, oven, another tiled counter are on wall at left*

New daylit kitchen opens up this old Spanish Colonial

"Originally, the house had no kitchen," owner David Greenberg told us, speaking of the Spanish Colonial-style house we chose as the setting for the tamale-pie party pictured on page 105. Built in the 1920s to serve mainly as a beach house, it provided no place for serious meal preparation.

With help from architects Ted T. Tanaka of Venice and Fred Purtill of Santa Monica, Greenberg set about turning a dark warren of cramped little rooms into a hard-working, up-to-date kitchen. They kept ties with the mood of the house: arched doorways, terra cotta tile floors, white-painted walls, and blue Mexican tile counters.

Owner and architects removed one exterior wall completely, reframed the opening with a massive 8- by 12-inch beam, then built a 2-foot-deep glass-walled addition, enclosing a new sink counter and bringing in a flood of daylight. On the opposite wall they widened an arched doorway to the dining area and, beside it, knocked through the thick wall to make a similar arch for a tiled buffet pass-through.

In the center of the kitchen, designed so that many cooks can join in, is a big island with tiled work surfaces, a strip of chop block, a restaurant range and oven, a grill, and a griddle; there's under-counter storage all around. Electric outlets in the countertop accommodate appliances. Overhead, surrounding a heavy-duty vent fan, is a custom-made hood shaped like a ziggurat.

Along an end wall, another tile-topped work counter with chop-block inset covers a second oven.

All the cabinetry is solid oak or oak plywood. Adjustable shelves for dishes, glasses, and cookware are open to view.

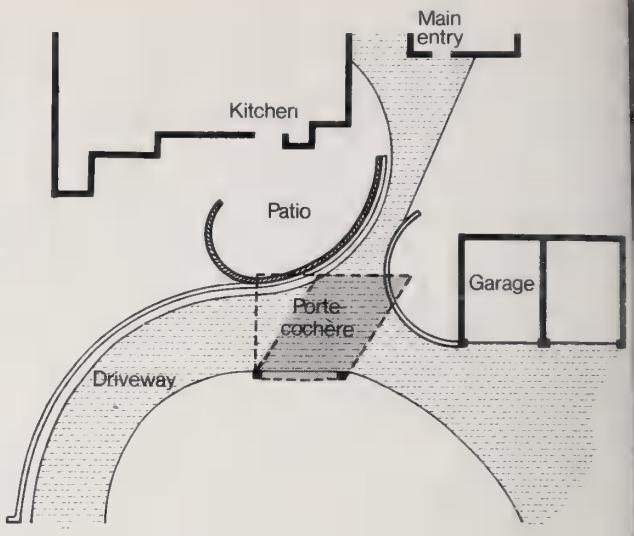
Seven recessed ceiling fixtures around the center island direct light toward all the work areas. □

BECAUSE fine wine is sensitive to the light's rays, the bottlemaker creates a special color in the glass to shield our delicate Chenin Blanc from the light. Every step we take, we take with care because THE WINE REMEMBERS

THE WINERY OF ERNEST & JULIO GALLO

Chenin Blanc of Calif.
Ernest & Julio Gallo, Modesto, CA

In new plan, *driveway, walkway, walls, and porte-cochère all work to funnel visitors past kitchen to main entry*



An old-fashioned "door for coaches" makes a striking new entry

Not often does a remodel today feature a *porte-cochère.* After all, its literal meaning in French is a door for coaches, and it has come to mean an entrance porch to shelter people who descended from them.

This porte-cochère forms a striking entry to Betty and Jack Evans's Phoenix house, built in the 1920s. It also alleviates an annoying traffic problem: because the front door of the house is set about 20 feet behind the kitchen door, visitors often had trouble finding the main entrance.

Architect J. L. Atwood redirected traffic by creating an obvious unloading point—the porte-cochère—and continuing with a walkway, paved in the same stamped concrete as the new crescent-shaped driveway, directly to the front door (see plan above).

A curved, 8-foot-tall wall secludes the patio area near the kitchen door, creating a new private outdoor breakfast spot. (The wall also helps support the porte-cochère's roof, which has a triangular opening on one side.)

At night, a string of lights fitted under the lip of the low walls flanking the driveway leads guests in. ◻

THE SURPRISING CONVECTION

TEFLON II

Other items m
by Toastmas
use DuPo
non-stick coatings

Before: *entry door was hidden, behind and to the left of the garage*

DON NORMARK

Driveway and low walls *boldly curve through porte-cochère (above). Tall wall (left) directs visitors to entry, shelters kitchen patio. Stucco covers framework of concrete block and wood*

OVEN FROM TOASTMASTER.

IT DOES MORE THAN YOU'D EXPECT.

You're looking at the most versatile convection oven sold in America today.

The Toastmaster System 4™ Convection Oven.

It's a true convection oven, engineered with reliable forced-air cooking to enhance the quality of so many foods. But unlike any other convection oven, it also offers three traditional cooking methods, which means that now you can have convection cooking without compromise.

BROIL.

Those four big numbers you see on the dial give you four different choices.

Selection number 1 is for regular broiling. Steaks, fish and certain other dishes still cook best and look best when top-broiled with direct radiant heat.

BAKE.

Turn the dial to selection number 2 for regular baking. Often, it's the best way to prepare the delicate dishes, such as souffles, cakes and other desserts.

SLOW-COOK.

To prepare a full-course meal over a six to eight hour period, turn the dial to number 3, for slow-cook. It cooks all day while the cook is away from the kitchen, yet is remarkably energy-efficient.

When you turn the dial to number 4, you have a true convection oven, which uses forced-air for more even, more thorough cooking.

CONVECTION.

The constant gentle flow of forced heated air over, under and around foods seals in natural juices and reduces total cooking time. Less cooking time means even less energy consumption, a very cost-efficient way to prepare natural-looking, natural-tasting family meals.

There's more to the surprising new Toastmaster Convection Oven.

It comes with two bake racks, a three-hour timer and features a continuous-cleaning interior to help the oven clean itself at normal baking temperatures.

Four essential cooking methods in one countertop convection oven make the Toastmaster System 4 quite a surprise. But the most pleasant surprise of all is that while the Toastmaster Convection Oven does more than you'd expect, it costs far less than you'd expect for such a versatile kitchen essential.

The Toastmaster Convection Oven. It's engineered, designed and priced to make it right at home.

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And as they get it, they need a complete credit card carrier like Rolfs Double Attache. The Double Attache protects your cards with Rolfs exclusive Credit Guard, and gives you plenty of room for photos, currency and coins. All wrapped in the warm look and feel of fine leather. So when you get the credit you deserve, get the credit card carrier you deserve too.

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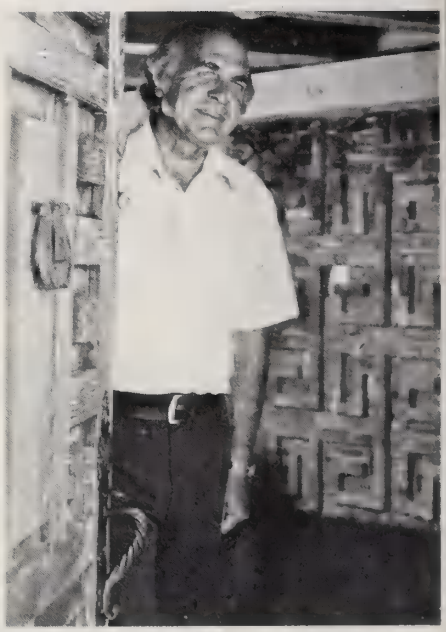
☐ Send color card on Decking & Fence Stains
☐ Enclose 25¢ for Cabot handbook on stains.

JOSEPHINE COATSWORTH

Peekaboo window *looks out to entry hall*

From kitchen, *she can see arriving guests*



Patterned brick wall *has a surprise built in. Small window hides in design*

Window hides in the brick wall

Hidden in the inside brick wall you see in the top photograph is a small opening that allows the cook to see out to the entry hall. The window almost vanishes in the Greek key pattern of the bricks. On the kitchen side, the wall is faced with hand-shaped Mexican tiles. Nat Kaplan of Albuquerque designed the wall for Harry and Carol Kinney. □

INTRODUCING THE RICH, HANDCRAFTED LOOK OF AMERICA'S PAST.

MIDDLETON PLACE™ HEARTHSTONE maple veneer plywood with simulated grain highlighting by

You can easily see this is no ordinary room. Sure, the antiques and furniture are beautiful. But there's something more.

It's our new Middleton Place™ paneling — the paneling that makes an ordinary room special.

FIELDSTONE

From its distinctive colonial grooving to its rich maple face veneer, no other panel we make brings home the look of America's past like Middleton Place.

SANDSTONE

Real wood is one reason why. Because every panel is naturally unique, with richly highlighted natural grain. And a finish that has the same kind of hand rubbed look as fine furniture.

Middleton Place paneling is available in 4'x8' sheets, ¼-inch thick with a real maple face veneer in your choice of four colors.

GRAYSTONE

And you can see them at your Georgia-Pacific Registered Dealer where we invite you to discover the rich, handcrafted look of America's past in our new Middleton Place paneling.

For dealers stocking Middleton Place and/or other G-P real wood panelings, call toll free ***(800) 447-2882*** *(except Alaska & Hawaii). Illinois: (800) 322-4400.*

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Home of quality building products and service

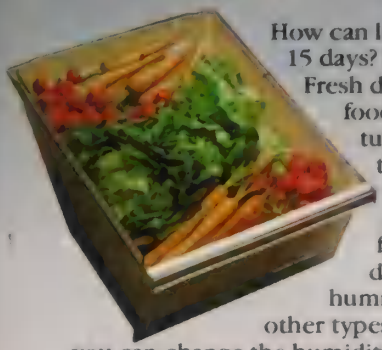
MIDDLETON PLACE™ PANELING FROM GEORGIA-PACIFIC

Presenting 15-day-old lettuce.

Presenting the new GE Food Saver that brought it to you.

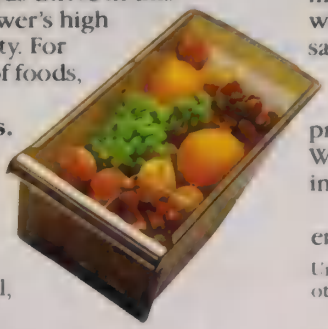
TBF-17ZA

It makes even hard-to-keep food easy to keep.



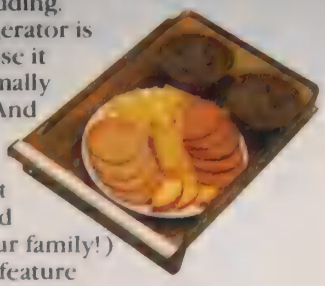
How can lettuce be this fresh after 15 days? Because our Moist 'n Fresh drawer doesn't just keep foods at the right temperature. It also keeps food at the right humidity. And leafy vegetables and other moisture-loving foods thrive in this drawer's high humidity. For other types of foods, you can change the humidity.

Presenting 15-day-old fruits. Grapes, strawberries, oranges and peaches keep their garden freshness better in the lower humidity of our Cool 'n Fresh drawer. It also has adjustable *temperature* control, so it can be converted for fresh meat storage.



Presenting 15-day-old meat and cheese. This sealed, high humidity drawer gives long life to *unwrapped* meats and cheeses, and uncovered snacks like pudding.

The Food Saver refrigerator is also a money saver. Because it keeps food fresh that normally may have gone to waste. And when you save food, you save money. (And you save the time and effort you spent shopping and preparing the food for your family!) We can't think of a better feature in a refrigerator.



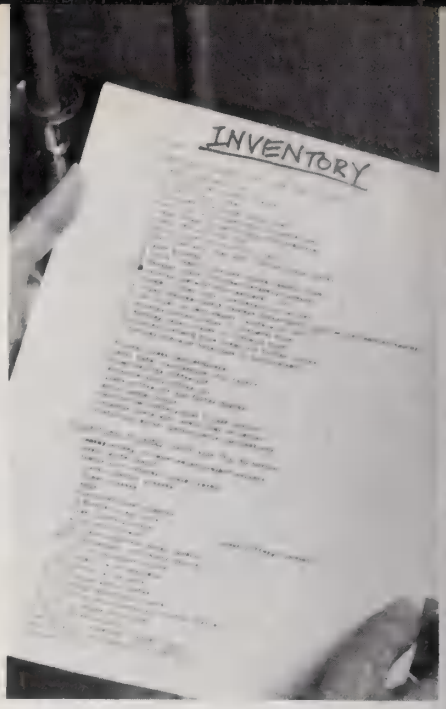
Ask your GE dealer to present you the entire line of Food Saver refrigerators.

Unretouched photographs were taken of lettuce and other foods stored in refrigerator drawers after 15-day test

We bring good things to life.

GENERAL ELECTRIC

NORMAN A. PLATE



Summer tenants *find information packet left by vacationing homeowners. It includes appliance and house care details, telephone numbers, and inventory list*

Rent your house? Here is counsel

Farm out the house plants, cancel the newspaper, and lock the front door. Leaving for vacation used to be almost that simple. Today, many people think twice about leaving their houses unoccupied while they're away. For a greater sense of security, they look to short-term renters.

Though this alternative is not without risks, it is worth considering if you're planning an extended trip. With a little forethought you can substantially increase the chances of a favorable experience for you and your tenants. Here is advice from experienced landlords and professional rental go-betweens.

To rent or not to rent?

> We've always been concerned that outsiders wouldn't do the nice, respectful things we do in caring for our house.

Overcoming an initial reluctance to have strangers living in your house can be the hardest part of this undertaking.

Consider your needs carefully. If you'll be away less than a month, it's probably easier to look for someone you know to live in your house in exchange for watering, feeding pets, collecting mail, and so forth. If your trip will be longer and you live in an area where there is some demand for short-term housing, it may be to your advantage to rent. Either way, decide early.

> Our only bad experience involved tenants we found at the last minute. We knew they weren't right, but there was no time to look elsewhere.

Finding the right tenant

> We were a little embarrassed when we realized our tenants' teen-age boy had to live in our 3-year-old's bedroom. We'd told them the number of rooms but not the décor!

Decide first what kind of tenants would suit your house and your needs. Would your house be childproof and, if so, for what ages?

Do you plan to leave pets? Are your furnishings delicate or casual? Do you expect tenants to maintain garden, pool, and house, or will you hire professionals? Will you include a car as part of the deal?

Other than from personal contacts, how do you find a potential tenant? If you live near a college or university, call the housing office. Check with large corporations that might have transferred families in need of temporary housing. Or advertise in a newspaper; give your home telephone number rather than your address or for even more privacy, give your office telephone number.

If you'll be away for several months, consider talking to a real estate agent who specializes in rentals. Their fees differ (quotes we got varied from a month's rent to $200 to 3 to 10 percent of the rental income), and their duties range from just finding tenants and arranging the initial lease to acting as a liaison, rent collector, bill payer, and problem solver.

There's no foolproof way to evaluate potential renters. Some homeowners use a standard tenant application form (available at stationery stores) to ascertain basic financial, occupational, and personal background. Some people ask for references and telephone employers. Others view the matching process as something intuitive. Professionals in rental real estate and property management can probably offer the best advice on how to choose good tenants.

> Referrals are certainly the safest way. If you have an acquaintance in common, there's a good chance that your renter will feel more responsible.

> I look for people who pay attention to details, who seem to be concerned about the other party.

Setting the rent

Compare rents in the classified ads and talk to professionals. Naturally, the desirability of your location, the house and its furnishings, the season and time period, plus extras such as cleaning service, boats, automobiles, or guest privileges at your club, will all influence the price you determine. Some people keep the rent high, including many extras. Others feel that a low rent will make their tenants more appreciative and careful.

> By keeping the rent low, they know this is more than just a business deal. It's friendlier and, in the long run, smarter.

The look of a wood roof. Without the drawbacks. Because it's made with fiber glass.

By Johns-Manville.

The heart of fiber glass means the roof will live longer.

This is the Woodlands® roof. By J-M. It gives you the natural look and rustic beauty of a wood shake roof.

But the really beautiful thing about a Woodlands roof is that there's a protective sheet of fiber glass inside each shingle.

That's very important. Because fiber glass won't support combustion. Which means you and your family and home are well-protected against fire that starts outside your home—from fireplace sparks or from burning debris blown from a nearby fire.

No wonder all Johns-Manville fiber glass roofs have earned the highest fire-resistance rating UL gives—Class A.

But there's more. That protective fiber glass mat inside every J-M shingle is the reason your roof won't split and crack like a wood roof.

And because of their inorganic base, fiber glass shingles are rot-resistant. That can mean years of extra roof life to you. (The J-M Woodlands roof is warranted for 25 years.)

For the name of your nearest roofing contractor or dealer that carries these remarkable shingles, call 1-800-447-4700, or write Johns-Manville, P.O. Box 5108, Denver, Colorado 80217.

JM Johns-Manville

The least important thing about renting your house is the money. What matters is having people take care.

Put the agreement in writing

You may want a lawyer to draw up a contract, but most people find a standard lease form (from stationery stores) sufficient. Spell out all duties and expectations: who pays for utilities, gardener, taxes, minor maintenance and repairs; how and where rent is to be paid; damage and cleaning deposit information (a vital safeguard); and prohibitions such as pets, smokers, or live-in guests.

We thought the two people who met us and signed papers would be the only ones living in the house. We returned to find relatives from far and near camping all over the floors.

When I first rented my house, I didn't use a contract, just a letter outlining the rules. There were tons of unforeseen problems. My coming back frequently was all that kept things organized.

Be clear about return dates.

Because of a mixup with dates, we ended up having both families in the house for a week. You can imagine how uncomfortable that was.

Check with your insurance company

Although with carefully selected tenants the risks are small, the potential for damage to your house and possessions is certainly enormous. Make sure your insurance coverage is adequate and up to date. We spoke to several insurance agents about possible rate increases.

If you have a homeowner's policy, there's no additional charge for leases less than 30 months. A theft by your renter, however, would not be covered.

There's no change required from our point of view. We do suggest removing any articles of value.

It would depend on the specific case.

Preparing the house for tenants

For insurance purposes as well as your own protection, do a pre- and post-trip inventory. This can be as elaborate as a room-by-room itemization of contents or as simple as a list of special valuables. Be sure to note existing damages so your tenants won't worry that they're responsible. Says one real estate agent:

I like the owners to note damages for their own knowledge, too. You'd be surprised how they can idealize their homes, thinking that every nick and scratch must have been made by the tenants.

Lock away anything irreplaceable or not to be used. What's special to you may appear ordinary to someone else.

Once, we were on the other side of the rental picture and were very glad the owners had locked things away. It's a relief not to have to worry about someone's prized possessions.

On the other hand:

There are many lovely objects in our home, and we wanted our tenants to enjoy them as much as we do. We found that that attitude helped unburden us from our "things," and we felt much more relaxed about the whole experience.

Anticipate mechanical problems that are likely to occur.

Every summer the sewer goes out and it's always while I'm renting. Now I leave the names of repair men and some cash in case they're called.

We suspected our refrigerator and water heater might give out, so we left detailed instructions on which models we wanted and where to buy them. Sure enough, they both did, but the replacement was fairly painless for all of us.

In some cases repairs and purchases made to prepare for rental are tax deductible. Ask your tax person.

Choose someone to act as a liaison

If you're going to be out of the country or difficult to reach, it's extremely important to leave someone in charge—a relative, co-worker, or professional property manager. Duties might range from emergencies only to paving bills, handling complaints, and occasionally checking in.

Several years ago I managed a house while the owners were in London. One morning at 5 a huge 100-year-old oak tree fell down, breaking fences and water pipes, tearing out wiring, and

When you're ready to grow it yourself.

Grass too crabby? Flowers too weedy? Don't despair. Plant yourself at SENTRY HARDWARE. Our friendly experts have a harvest of ideas and advice to make your outdoors great, again. And a bumper-crop of products at down-to-earth prices.

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B STANLEY® 20 Foot POWERLOCK® Tape Measure. (PL320)
C SENTRY® Minuteman™ 50 Foot Rubber/Vinyl Hose. (129-50')
D hudson® BUGWISER® 3 Gallon Sprayer. (6220SE)
E Dissston® Dual Power Hedge Trimmer. (2060)
F NELSON® Jet Spray Oscillator. (N-068A)
G THERMOS® 1 Quart All Stainless Steel Bottle. (2464S)
H ENERGIZERS® New from Eveready, your choice, 9 volt, and "C" or "D" Twin Packs.

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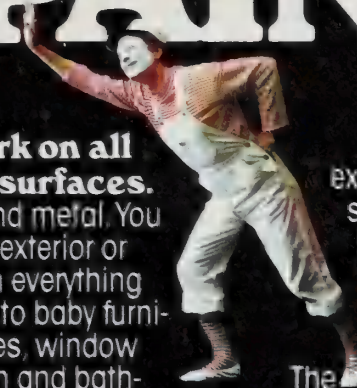
When you're ready to do-it-yourself.

Check the Yellow Pages under Hardware for the SENTRY store nearest you.
Interested in becoming a Sentry Hardware dealer? Contact us at Sentry Hardware Corporation, Cleveland, Ohio 44113.

Merchandise shown in this advertisement is available from participating Sentry dealers only. Offer expires May 24th, 1980. The 4,500 Sentry dealers own their stores. They select their merchandise and set their own prices. There may be variations in products, available quantities and prices in individual stores.

GOODBYE OLD PAINT.



Meet Le Spray™ and Le Brush™.

The tough, new Envirolite™ Plastic Finish that has all the benefits of an enamel. And even washes up with water. What's more, it retains its beautiful, glossy finish longer than enamels.

They're tough.

Don't let the easy clean-up fool you. Le Spray and Le Brush plastic finishes resist marring and chipping. Not to mention stains, alcohol, abrasion, rust and corrosion. And they even protect against severe weather conditions.

They work on all paintable surfaces.

On wood and metal. You can use it as an exterior or interior finish. On everything from bookcases to baby furniture, toys to tables, window frames to kitchen and bathroom walls. And Le Spray and Le Brush come in a rainbow of beautiful colors.

They're easy to use.

Le Spray and Le Brush finishes are tough on everything but you. They go on easily, leveling and flowing to a smooth, hard finish. Adhesion is excellent. They dry quickly. And clean-up is a snap. You just wash up with water.

No reason to buy expensive brushes, messy solvents or metal primers. Le Spray and Le Brush are all you'll need.

You can't beat the System.

The Envirosol™ System, that is. It's the result of years of laboratory research and experimentation.

Products based on the Envirosol System offer you new highs in beauty. Greater ease of application. Long lasting protection for all paintable surfaces. They clean up with water. And meet clean air requirements.

New Le Spray and Le Brush. The tough Envirolite Plastic Finish that does so many jobs. It makes paint seem old hat.

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Fast relief for window panes.

Your local Spring Crest Drapery Center can make you feel good about your windows again.

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Like these beautiful Spring Crest Decorator Rods. With our complete selection of elegant window treatments to choose from, there's no need to shop anywhere else.

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See "The Specialists"

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505 W. Lambert Road Dept. 012
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smashing the side of the house. The tenants called me, but I was unable to reach the owners due to a postal and telephone strike. I ended up calling the insurance company and making all the repair arrangements.

If the liaison person plans to drop in, it's polite to give notice and not do it so often that the tenant's privacy is invaded.

One of our neighbors who's a whiz with house plants would stop by periodically to check on ours. Actually, it was more of an excuse to keep tabs on any major disorders.

Bill arrangements and mail

Leaving tenants postdated checks to give to maintenance people is one way to discourage workers' surreptitious "vacations." Monthly payments can be handled by you or your liaison. Have the post office forward your mail or let the tenants receive it and forward only the first class.

Leave lists, lists, and more lists

In an obvious place, leave information about garbage pickup, house cleaning, gardening, pet care, and special maintenance techniques for things such as butcher-block counters or mildew-prone tile. Gather your appliance instruction booklets and include them as well. Draw a map of circuit breakers or fuse boxes, gas main, thermostats, pilot lights, heat outlets, fire extinguishers, plumbing clean-outs, sprinkler systems, burglar alarms, and door and window locks, with detailed instructions for each.

List addresses and telephone numbers of your liaison, plumber, electrician, gardener, house cleaner, insurance agent, pool service, veterinarian, neighbors, relatives, and appliance repair people.

Additional nice touches would be a few maps, sightseeing suggestions, and theater and restaurant recommendations.

We try to leave a chamber of commerce packet for our renters, a bouquet of flowers, and food for their first meal or two. It helps to establish an atmosphere of friendship; they usually reciprocate.

Home sweet home

Soon after your breath-holding return, recheck your inventory and discuss any discrepancies with tenants. If all is well, return cleaning and damage deposits. Change the locks if it makes you more comfortable.

"Did you have any unforeseen problems?" we asked our informants.

One woman drank my whiskey, but she replaced it.

The pool cover was left in the sun and rotted.

Our bikes were stolen when they were parked at the train station.

Our plants always die. The tenants have good intentions, so it never bothers us much.

Absolutely not. It was fun to come home and find the furniture rearranged and to see what good care they had taken. We still keep in touch. □

Guess What's Come To Carpet.

Wear-Dated®- The Symbol You Trust- And A Full 5-Year Warranty, Too.

Now, when you want proof of a carpet's quality, you don't have to depend upon some stranger's opinion.

You can depend upon a symbol of quality that you've known and trusted for years—the famous Monsanto Wear-Dated® trademark. Since 1962, this familiar trademark has given millions of shoppers confidence in Wear-Dated clothing. And, now, you can enjoy that same confidence in Wear-Dated carpet made of Ultron® nylon.

Only Wear-Dated carpet of Ultron is backed by the Monsanto Full Five-Year Warranty—the most comprehensive warranty in the business. Wear-Dated carpet of Ultron also controls static, resists soiling and keeps its beautiful appearance, even after many cleanings. What's more, it's offered in today's rich colors and most luxurious styles.

So when you want a beautiful carpet you can depend upon, look for the symbol you trust. Look for the Wear-Dated trademark—only on Wear-Dated carpet of Ultron nylon by Monsanto.

*Monsanto warrants that it will repair or replace any portion of any approved WEAR-DATED® carpet (including cost of installation) if it fails to give normal wear for five full years from date of original installation. This warranty specifically excludes carpet which has been installed on stairs or has been put to non-residential use. To file a warranty claim, forward your sales slip, (indicating retailer name and address, date of purchase, carpet brand and style identification) to Monsanto, 320 Interstate North Parkway, Atlanta, Ga. 30339. Phone (404) 955-4000. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Note: If identical carpet is not available at the time of claim, Monsanto will provide an equivalent carpet. Follow manufacturer's care instructions.

Ask your dealer for our free brochure. Wear-Dated and Ultron are registered trademarks of Monsanto Company. Monsanto makes Ultron nylon fiber, not carpet.

Lots of handy facts and colorful photographs to help you make the right window choices, including information on how Pella windows conserve energy and reduce maintenance. To get your free 16-page brochure, contact the nearest Pella distributor listed below.

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Barclay Dean/ Pella Products
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Arctic Business Park

ARIZONA
Tempe
Pella Products of Arizona, Inc.
3201 South Hardy Drive

CALIFORNIA
North Highlands (Sacramento)
Central Pella Co.
3479-B Orange Grove Avenue

San Diego
Pella San Diego
1187 Morena Boulevard

San Francisco
Pella Sales Company
#1 Tubbs Street

Santa Ana
Pella Products
3026 Orange Avenue

COLORADO
Denver
Pella Products of Colorado, Inc.
4500 Grape Street

HAWAII
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Empire Pacific Industries, Inc.
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Only Pella offers it all.

DAVID STUBBS

Folded down, wall box *with track and switches becomes model-railroading table*

Miniature train table disappears into the wall

The thrill of maneuvering a miniature train over trestles and through tunnels need not be confined, for lack of track space, to a few days at Christmas. Sue and Bill Brandt of Brawley, California, solved the table-space problem for their son Eric with a disappearing train board —a shallow hinged box that folds up and locks against a wall when not in use. The track is permanently mounted inside this box, and the train is stored in a desk drawer below.

The 9-inch-deep box, designed by Jack T. Williams, Sr., is made from ¾-inch plywood with redwood benderboard glued and nailed to its sides and bottom. Inside the top corners, where legs screw in place, 2 by 2's give extra support.

The train box attaches to Eric's desk with a piano hinge screwed into a 1 by 2 nailed to the desk top. □

Framed square *of wallpaper relieves boxiness of folded-up train table*

Threaded rod *in leg screws into nut welded to end of countersunk pipe*

OTHER WOODS CANNOT BE MADE TO DO WHAT REDWOOD DOES NATURALLY

Chemical treatments of other woods cannot change their true characteristics.

- Redwood's resistance to warping, checking and splitting is natural. It goes down flat. And stays flat. No other wood saws and nails as easily.
- All-Heart redwood's natural resistance to insects and decay goes all the way through the wood, protecting sawn ends as well as surfaces.
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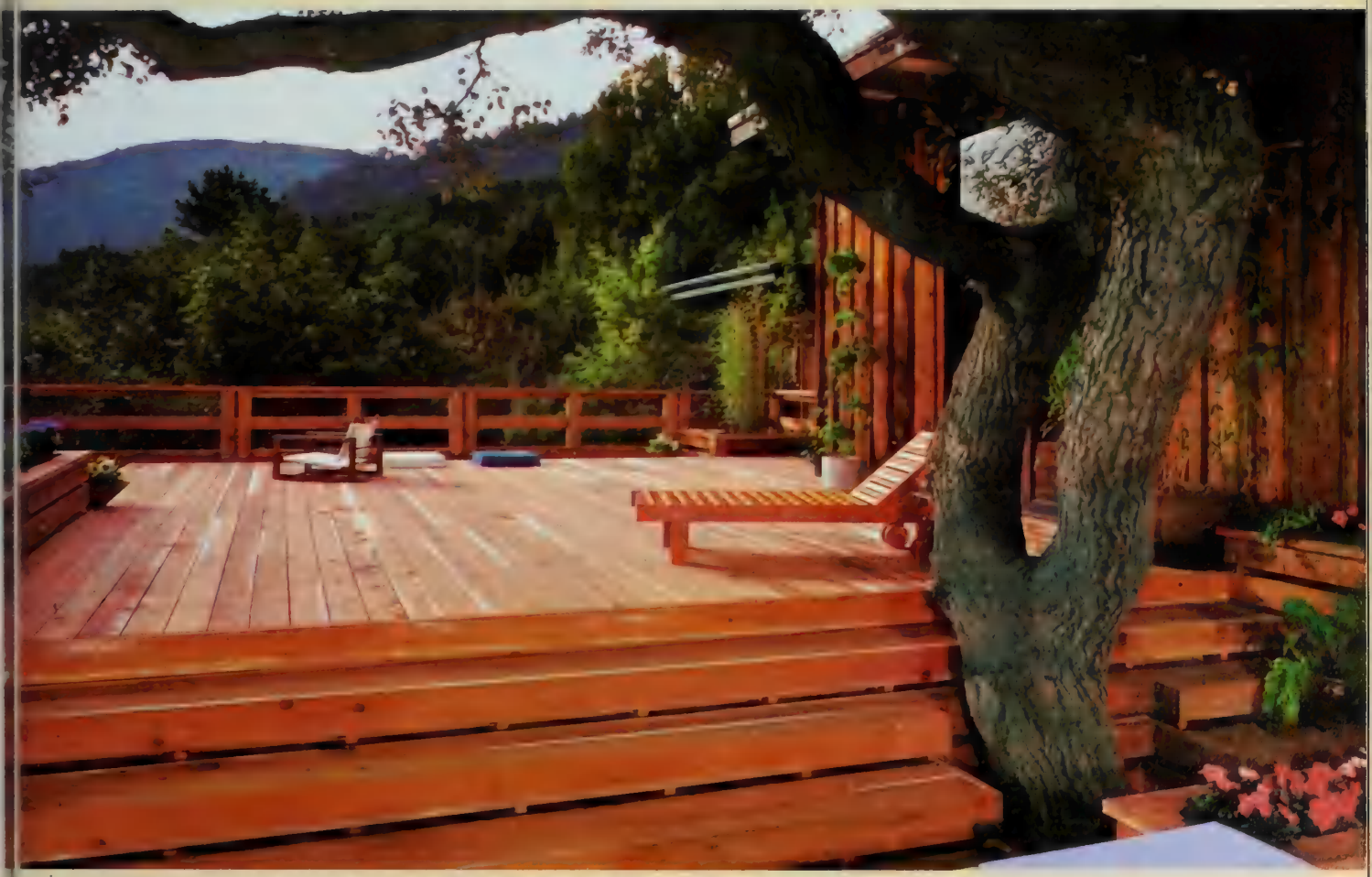

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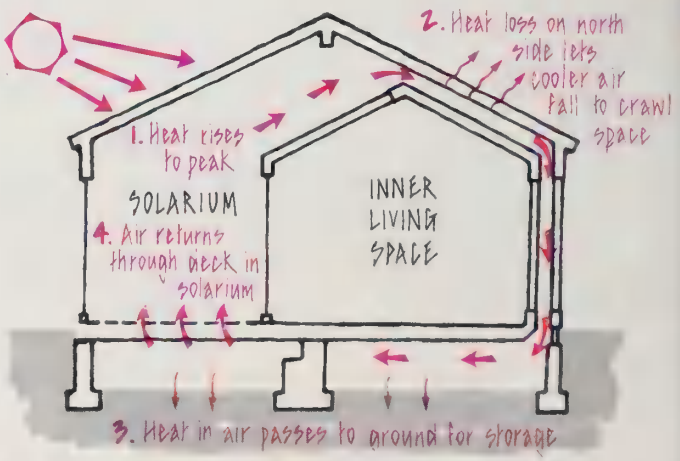
JIM PECK

Reflecting summer sunlight, *overhead canvas can also slow down night heat loss. Peaked roofs on inner rooms channel warmed air up and over (see diagram). Rooms can be shut off with sliding shoji screens*

Next step with solar? Maybe it's the double-shell house



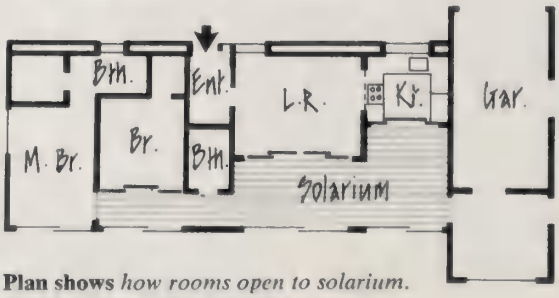
Heat gathering: *sunlight enters through glass roof of solarium along house's south side; warmed air both insulates and circulates around inner living areas. Spaces between floorboards allow air to complete loop*

Advances in passive solar architecture come slowly since new designs must first be built and then monitored for efficiency. A promising newcomer is the double-shell house, one of which is shown here. This innovative and somewhat controversial design uses the air space between an inner and outer shell to transport and store heat as well as to insulate and even cool the house.

According to Lee Porter Butler of the San Francisco architectural firm of Ekose'a, the design takes advantage of the natural movement of air as one side of a building gains heat and the other loses it.

In this Los Altos, California, house, the movement or "convective loop" occurs in an air space surrounding the peak-roofed inner living areas (kitchen, living room, bath, and guest bedroom). It runs from a south-facing solarium up to the upper peaked roof, then between double north walls, under the house in a crawl space, and back up through spaces in the solarium's decking (see sketch above right).

The hot air on the south side will rise to the peak, and the cool air on the north will fall—a push-pull effect that causes



Plan shows *how rooms open to solarium. North-facing walls and windows have 12-inch air space between them*

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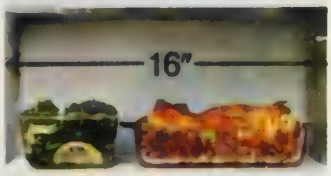

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JIM PECK

House glows *with light at dusk. Except for glass roof, its exterior differs little from standard ranch houses*

the air to circulate in a loop. In the daytime, the loop works because the air in the north wall is cooler than in the south-facing solarium. As the air falls to the crawl space, it still has enough heat to transfer to the cooler earth below.

At night, the loop reverses its flow, since the solarium side of the house, with all its glass area, will lose heat to the outside faster than the insulated north side will. Nighttime heat comes from energy stored in the mass of both the structure of the building and the earth below. The idea is that the house's heating and cooling needs will be balanced by the constant movement of air in the house.

For summer cooling, the loop is interrupted. White canvas bounces back most of the sun's energy through the overhead glass, and any heat that does build up is released through three large operable vents at the peak. (You can see one open just under the roof peak in the center of the large photograph on page 174.) Inside air is replaced by cooler air drawn in from outside on the shaded north side of the house, then brought through the crawl space and up into the solarium.

Although this and other double-shell houses (about 70 of them, built even in mountain areas and Alaska) seem to work, many solar authorities are puzzled by and critical of the design. Some ask whether air really circulates well enough on its own to store a significant amount of useful heat below the house, or whether it merely acts as an insulating buffer against the outside. Recent tests show that the air movement is there, and it could be helped even more by a fan. Others question its cost effectiveness. Would you get the same results from more standard, well-insulated, single-wall construction with masonry or concrete mass in the living area?

Still, the owners of this house are generally pleased with its performance. Once they learned how to "tune" the house to the outside weather (opening vents and doors or moving overhead shading material), it has proved to be comfortable in both summer and winter, with no additional expenses for space heating or cooling. □

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NORMAN A. PLATE

Sun-pocket deck *extends living space of master bedroom. Louvered screen provides privacy for sunbathers but lets light and air in*

Small deck is a sun pocket

Snug and sheltered, this small deck is a private spot off a master bedroom.

A 3-foot-high wall runs across the front of the 6- by 16-foot deck, and a tall end wall blocks the view of a high-rise apartment building to the south. Four feet beyond the deck, fixed louvers provide a partial screen to the west, yet give a full mountain view towards the northwest.

Louvers are made from 6½-foot redwood 1 by 6's trimmed into parallelograms and nailed in place at a 45° angle.

Architect David Decker designed the deck for Raye and Harry Wadsworth of Denver. □

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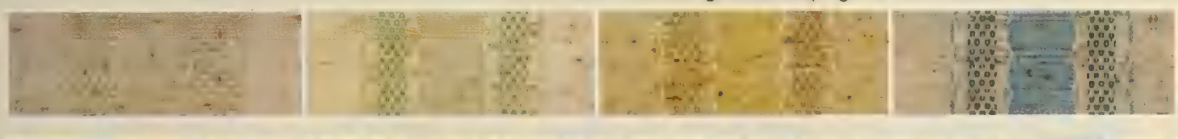

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BILL ROSS

Living room *overlooks stairwell beyond simple oak rail. Downstairs, removing one wall created child's play "cave"*

Open stair . . . once a dark tunnel

Removing two walls changed a dark tunnel of a stairwell into a bright extension of two rooms. The upper stair now shares light and space with the living room; the lower part is open to a den-playroom.

Architect Richard Runyen of La Mesa, California, cut out studs from the living room wall—a load-bearing wall—that formerly blocked off the stairwell, and then spanned the new opening with a 2-by-10 beam.

Removing one wall of the lower stairwell required no new support members, because that wall was nonbearing.

The attractively varied paneling you see in both photographs is cedar 1-by-6 end cuts, salvaged from other projects. □

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Corrugated roofing panels find use as a durable shower wall

If inexpensive galvanized metal can work as a watertight and durable roofing material, then why not as a shower wall? Phoenix architect William P. Bruder specified a lightweight 28-gauge corrugated stock (about $10 for 26- by 96-inch panel; look in the yellow pages under Siding or Building Materials) for the shower walls at the John Galloway family cabin in Pine, Arizona. A standard fiberglass shower pan with a 2-inch concealed flashing serves as the base.

The 26-inch-wide metal panels were overlapped and anchored to the pan and wall frame with rubber-gasketed screws. A bead of silicone caulk seals the seams.

Mixer valve and shower head are mounted through flat steel, which is bent into a U-shaped column and screwed to the rippled surface.

DON NORMARK

Mini-gutter keeps this window clean

When Glen Bartlett of La Conner, Washington, added a picture window to his dining room, he hadn't figured on one thing. Every time it rained, water streamed down the glass.

To divert water from the window, Mr. Bartlett installed a gutter, the only one on his shingled house. Since the window area is so small, he used durable but expensive copper for gutter, roof, and downspout. The back edge of the copper roof bends up under the shingles and is sealed with a silicone caulk.

LARRY BULLIS

NORMAN A. PLATE

Backsplash brightener

At first glance it seemed impossible to find space for a window in this efficiency bathroom in Davenport, California. Designer John Matthias of Mill Valley, California, squeezed a small, standard-size sliding window between sink and mirror to let in both natural light and air. The owners were able to use clear glass without losing privacy, since the window looks out over secluded space.

Twin beds fit end to end at different heights

They're not really bunk beds, but they're not detached, either. Don and Fil Drukey of Design Format in Malibu, California, designed this sleep set to fit against a wall about 12 feet wide. One of the extra-long (80-inch) mattresses sits on a frame above a chest of drawers and extends out over the other bed by 14 inches. They recessed the elevated bed into an adjacent closet space, leaving room for a 12-inch storage bay behind.

Sewer pipes hold up—as planters and as a retaining wall

The vegetable garden in architect James Lashley's back yard in Laguna Beach, California, does more than produce salad greens: it holds up the hill. The plants are set in clay sewer pipe sections that Mr. Lashley picked up as seconds from a pipe manufacturer.

The pipes are set in two rows along the hill. They're sunk into the bank about 8 inches and filled in with soil. Heights of pipe and diameters (4 to 24 inches) are varied for visual interest and so the pipes can fit closer together. The only trick to using them as planters is aerating and fertilizing the soil with a post-hole digger.

If you find it hard to locate bargain seconds, unflawed sections sell for about $3 a foot for 8-inch diameter pipe, $2.25 a foot for 6-inch. Check in the yellow pages under Clay Products or Sewer Pipe for manufacturers or distributors. Sections are also made of concrete, and occasionally plastic of PVC.

The heat's off with magnetic cooking

Magnetic induction cooktops have had to confront the skeptics. How can anything cook without a hot surface to set it on?

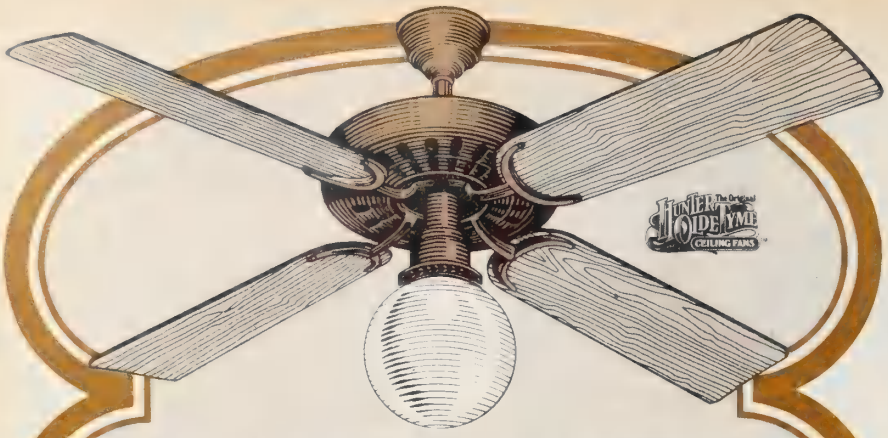
This method of cooking saves energy by heating only the pan. Here's how: A magnetic coil under the cooking surface creates a magnetic field when a pan is set on top and a switch turned on, as pictured below. The magnetic field heats the pan—but not the cooking surface—instantaneously. When the pan is removed, the unit shuts off and remains off until you set another pan in place and switch the "burner" back on.

Manufacturers claim magnetic induction cooktops are one-third to one-half cheaper to operate than a standard electric range. But they carry an expensive price tag. This one, with four ceramic tile elements and electronic touch control, costs $2,400 installed; other, simpler units range down to $700. Note: this is only for a cooktop.

Another investment may be cookware. Your pans have to be magnetic—either iron or steel. Glass, aluminum, or copper-bottom pans won't work. If you're not sure about the pans you have, test to see if a magnet sticks to them.

The unit pictured is by Fasar Systems, Inc.; the first on the market, it has been available for five years. Chambers, Roper, Sanyo, and Toshiba also offer magnetic induction cooktops, or will soon. They come with a glass or ceramic tile surface, with touch control or sliding temperature control. Look in the yellow pages under Ranges & Stoves for a dealer.

DAVID STUBBS



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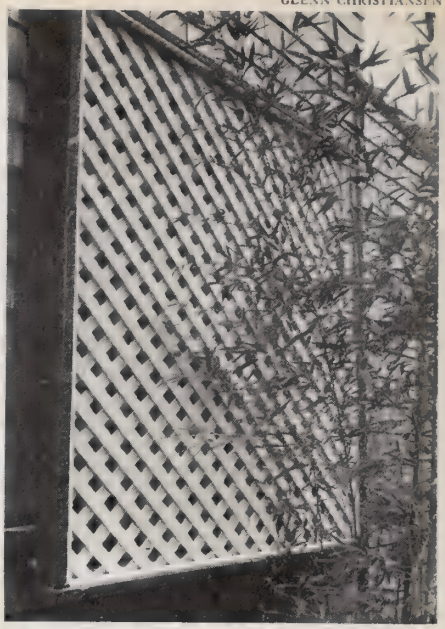
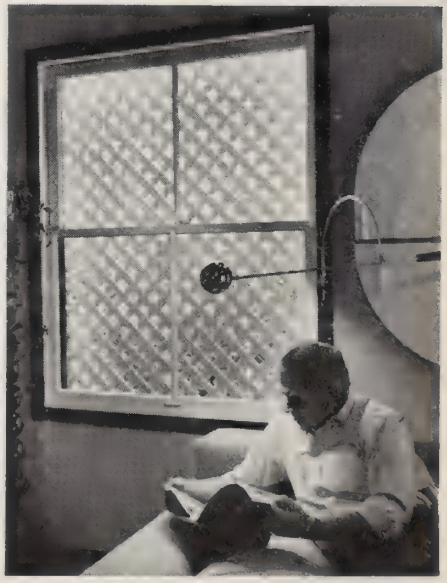


White lattice *screens south-facing window and diffracts light. Bamboo helps block view from outside*



Privacy screen is out-of-doors

Bedroom window privacy doesn't always require curtains. Sometimes an exterior screen like this one will work equally well and let in just enough light.

The 48- by 56-inch lattice panel is made from rough redwood lath nailed and stapled to a frame of 2 by 4's. The screen is held about 5 inches away from the window by 1-foot lengths of 1-inch hardwood doweling pushed through holes in the bottom of the frame and 3½ inches into holes drilled through the siding and into the wall studs. Nailed-on spacer blocks at the top hold the screen parallel to the window frame. □

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From 60 to 0, in separate road tests conducted by *Road & Track* during '78 and '79, the Saab 900 Turbo stopped quicker than, among other cars, two Audis, two Jaguars, five BMWs, a Ferrari, a Maserati, a Mercedes and a Volvo.

And going was no less spectacular than stopping.

Through the standard *R&T* slalom course, the Saab 900 Turbo—a four-cylinder, front-wheel drive car, mind you—was timed faster than three Mercedes, four BMWs, two Ferraris, two Jaguars and a couple of Porsches, including the 928.

It's a sedan that also isn't.

The trunk in the Saab 900 is as big as those in the largest sedans being made.

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Fold the rear seat forward, lift the rear hatchback and the Saab presents a station wagon-like cargo space over six feet long and 53 cubic feet big.

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The Saab 900 is not a tiny compact or subcompact that gets good gas mileage.

It's a comfortable *mid-sized* car that does.

The Saab 900 EMS, for example, gets 21 EPA estimated mpg and 30 estimated highway mpg.

(Remember, use estimated mpg for comparison only. Mileage varies with speed, trip length and weather. Actual highway mileage will probably be less.)

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The splash of genius

© 1980 R.T. FRENCH CO

Inside the pop-out? Skylit new bath

Consider the floor space a bathtub takes up. By pushing the tub through the bathroom's outside wall by means of a glass-roofed cantilever, Linda and Jonathan Knight of Seattle gained 18 square feet of floor space—and lots of sunlight. The pop-out is 3 feet wide and 6 feet long, leaving ample room for a standard 30- by 60-inch tub.

To support the addition, new 2- by 6-inch joists were run 6 feet back under the house and secured, with eight ½-inch bolts per new joist, to the existing floor joists. Then came wall studs, wiring, plumbing, insulation, and subflooring. Plumbing for the new tub was angled out from the original water supply and drain lines.

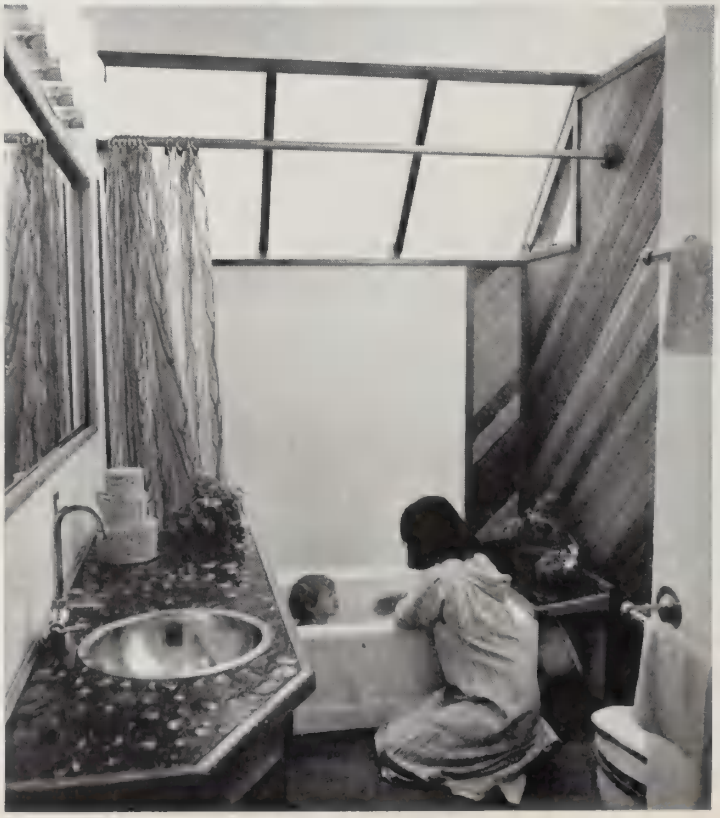
The pop-out's roof is double-paned wire-reinforced glass framed with redwood 4 by 4's and trimmed with redwood 1 by 2's. All wood used in building the skylight was treated with a sealer and a marine-grade polyurethane finish. The glass was secured in place with silicone rubber caulk.

The exterior was shingled in cedar and then stained to match the rest of the house. □

Bathtub cantilever *shelters firewood. High triangular window allows ventilation*

Sunlight and space came in *when bathroom moved outward. Shelf at end of tub holds bath toys and plants, leaving storage area underneath*

DON NORMARK



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Sunset's Kitchen Cabinet®

May brings a potpourri of events. For afternoon tea or a bridal shower this month, you might serve the water chestnut appetizers or the caramel-nut bars. If the family wants to take over cooking on Mother's Day, suggest the plum-glazed chicken—it's easy to do.

As the weather warms, you could start the barbecue season with beef satay with peanut sauce. The rice salad is a good accompaniment to barbecued

These appetizers are water chestnuts wrapped and baked in cheesy overcoats

Cheesy Chestnut Tidbits

Chill or freeze these appetizers until you need them. After baking, they're ready to eat.

- ½ cup butter or margarine
- 2 cups shredded sharp Cheddar cheese
- ½ teaspoon garlic salt
- 1½ cups all-purpose flour
- 2 tablespoons sesame seed
- ½ teaspoon paprika
- Dash cayenne
- About 4 dozen water chestnuts (2 cans, 8 oz. *each*)

In a small bowl, beat butter with an electric mixer until creamy. Mix in cheese until blended. Stir in garlic salt, flour, sesame seed, paprika, and cayenne; mix until well blended. With hands, gather crumbs together and press firmly into a ball.

Drain chestnuts well, then dry on paper towels. Press about 1 level tablespoon of the cheese mixture around each chestnut, covering it evenly with a coating about ⅛ inch thick. Place on cooky sheets. If made ahead, cover and chill or freeze.

Shortly before serving, bake chestnuts until lightly browned—15 to 20 minutes in a 425° oven if at room temperature or chilled, about 35 minutes in a 400° oven if frozen (do not thaw first). Serve warm. Makes about 4 dozen.—*T. M., Portland.*

Spoon spicy peanut sauce over grilled or barbecued beef cubes and hot rice

Beef Satay with Peanut Sauce

Serve barbecued marinated beef cubes with a spicy peanut sauce-dip.

- 2 teaspoons curry powder
- ⅓ cup soy sauce
- 2 tablespoons *each* lemon juice, brown sugar, and salad oil
- 3 pounds boneless sirloin steak, cut in 1½-inch cubes
- Peanut sauce (recipe follows)

In a plastic bag, combine the curry powder, soy, lemon juice, sugar, salad oil, and meat; mix well. Chill for 12 to 24 hours.

Thread meat on skewers and broil or barbecue over hot coals about 2 inches from the heat, turning to brown all sides, until medium rare; this should take about 10 minutes.

Serve with peanut sauce. Makes 6 to 8 servings.—*A. M., Oakland.*

Peanut sauce. In a blender, purée 1 large onion (cut in chunks) and 2 cloves garlic with 1 tablespoon water. In a small pan, cook the onion mixture in 3 tablespoons salad oil over low heat until very soft. Stir in ¼ teaspoon cayenne; 1 teaspoon ground coriander; 2 tablespoons *each* packed brown sugar, lemon juice, and soy sauce; and ¼ cup peanut butter. Remove from heat. Gradually stir in ¾ cup milk. Before serving, cook over low heat, stirring constantly, until hot.

A sweet-sour dressing gives this ham, rice, and bean salad its zesty flavor

Crunchy Rice, Bean, and Ham Salad

If you use the larger amount of ham, this salad can be a main course.

- 3 cups cooked rice
- 1 can (15½ oz.) kidney beans, drained
- 1½ cups sliced celery
- ½ cup *each* chopped green onion and green pepper
- 1 jar (2 oz.) sliced pimiento, drained
- 4 to 8 ounces cooked ham, cut in thin strips, 1 to 2 cups
- Sweet-sour dressing (recipe follows)
- Lettuce leaves
- 1 or 2 tomatoes, cut in wedges
- 1 or 2 hard-cooked eggs, sliced

In a large bowl, combine rice, beans, celery, onion, pepper, pimiento, and ham. Pour hot dressing over rice mixture and toss together. Cover and chill, stirring occasionally, at least 8 hours and up to 24 hours.

To serve, line bowl or platter with lettuce leaves; fill with rice salad. Garnish top with tomatoes and eggs. Makes 6 to 8 servings.—*R. H., Huntington Beach, Calif.*

Sweet-sour dressing. In a small pan, combine ⅓ cup cider vinegar, 3 tablespoons sugar, ¼ cup salad oil, 2 tablespoons Dijon mustard, 2 teaspoons garlic salt, 1 teaspoon pepper, and ¼ teaspoon liquid hot pepper seasoning. Bring to boiling.

meats, and it also works well as a whole-meal salad for a picnic.

As you create new recipes this month, mail them to *Sunset Magazine*, Menlo Park, Calif. 94025. We pay $25 for each recipe published.

Peanutty beef cubes, chicken that's plum shiny, ham salad, cheesy tidbits

Plum-Glazed Chicken

Plum jam mixed with spices and vinegar makes a shiny glaze for chicken.

- ¾ cup plum jam
- ¼ cup cider vinegar
- 2 tablespoons Worcestershire or soy sauce
- 1 tablespoon catsup
- 2 teaspoons finely chopped fresh ginger or 1 teaspoon ground ginger
- ½ teaspoon ground cinnamon
- ¼ teaspoon dry mustard
- ⅛ teaspoon *each* ground cloves and liquid hot pepper seasoning
- 1 broiler-fryer chicken (3½ to 4 lbs.) cut in serving-size pieces

In a small pan, stir together the plum jam, vinegar, Worcestershire, catsup, ginger, cinnamon, mustard, cloves, and hot pepper seasoning. Cook, stirring, over medium-low heat until hot.

Arrange the chicken pieces, skin side down, in a greased shallow-rimmed baking pan or broiler pan. Brush part of the sauce over chicken. Bake, uncovered, in a 375° oven for 30 minutes, basting occasionally.

Remove pan from oven and turn chicken pieces over. Brush with more of the plum sauce. Return to oven and continue baking, basting occasionally, about 25 minutes longer or until thigh meat is no longer pink when cut near bone. Makes 4 servings.—*J. B., Santa Rosa, Calif.*

To glaze chicken, brush a spicy jam mixture over the pieces as they bake

Meringue-topped Vegetable Custard

You can substitute crookneck squash for the zucchini in this recipe.

- 2 tablespoons butter or margarine
- 6 medium-size (2 lbs.) zucchini, shredded
- 1 large green pepper, chopped
- 1 large onion, chopped
- 1 teaspoon salt
- 1 teaspoon dry basil
- ¼ teaspoon *each* ground nutmeg and pepper
- 2 tablespoons flour
- 1 cup sour cream
- 6 eggs, separated
- 4 cups shredded Cheddar cheese (about 1 lb.)
- 2 tablespoons sesame seed

In a wide frying pan, melt butter over medium-high heat. Add squash, pepper, onion, salt, basil, nutmeg, and pepper. Cook, stirring often, until liquid evaporates, 20 to 25 minutes. Add flour and cook 1 minute. Cool.

Beat together sour cream and egg yolks. Mix in the vegetable mixture and 2 cups of the Cheddar cheese. Spread into a well-buttered shallow 1½-quart casserole. Beat egg whites until stiff moist peaks form. Fold in remaining 2 cups Cheddar cheese and spread over top. Sprinkle with sesame seed. Bake in a 350° oven until custard is set in center, 60 to 70 minutes. Let stand 10 minutes. Serves 6.—*E. T., Redondo Beach, Calif.*

A sesame seed-studded cheese meringue tops the savory summer squash custard

Almond-Caramel Bars

It's hard to believe something so easy to make can taste so good. These cooky bars are rich and chewy, with a caramel-nut glaze. Pack them for a lunch box or serve them for tea.

- ¾ cup all-purpose flour
- ½ teaspoon baking powder
- ¼ teaspoon salt
- 2 eggs
- ½ cup granulated sugar
- ¾ cup chopped almonds
- ¾ cup packed brown sugar
- 2 tablespoons butter or margarine
- 1 tablespoon milk

In a small mixing bowl, combine flour, baking powder, salt, eggs, granulated sugar, ½ cup of the almonds, and ½ cup of the brown sugar; stir together until well blended. Spread mixture into a buttered 9-inch square pan. Bake in a 350° oven for 20 minutes or until a wooden pick inserted in the center comes out clean.

Meanwhile, melt butter in a small pan over low heat. Stir in the milk and remaining ¼ cup *each* almonds and brown sugar. When cooky is done, spread caramel mixture evenly over top. Broil about 4 inches from the heat until bubbly and golden brown, about 2 minutes. When cool, cut in bars. Makes 2 to 3 dozen.—*L. G., Bremerton, Wash.*

Serve these quick-to-make cooky bars for a special treat with tea or coffee

Both sweet and sour, both spicy and cool

Indonesia sends us a pick-and-choose buffet

TERI SANDISON

Waiter strikes gong *to call guests at a Southern California rijsttafel*

This festive buffet is an easily handled introduction to the delights of dining Indonesian-style. It's a simpler version of *rijsttafel*, or rice table, a meal of many sweet, sour, spicy, and cool dishes all intended to accent the flavor of fluffy steamed rice.

You can invite six to eight guests and still keep the preparation easy. Four of the six dishes can be made ahead, then reheated or served at room temperature.

Both the skewers and chicken are first marinated in a soy-seasoned mixture (the amount of red pepper you use will determine the marinade's hotness). Typically they are cooked on a grill over charcoal, but if the weather dictates otherwise, you can broil the skewers or roast the chicken indoors.

Each dish is authentically seasoned, but with a light hand for Western palates. If you enjoy the authority of hot chilies, increase the amount of crushed red pepper.

We've deliberately geared the dishes to items that are readily available in most well-stocked supermarkets. But you'll need to visit an Oriental or Asian market for the shrimp-flavored chips which puff up dramatically in seconds in hot oil. Tamarind pods, which give the vegetable dish its sour-tart appeal, are found in Oriental or Mexican markets. Or you can use lemon juice instead. Look for frozen unsweetened coconut milk in Oriental stores or gourmet shops.

Here we give recipes for three make-ahead side dishes. You can also make the shrimp chips in advance; fry them (follow package directions) and store them airtight until needed.

Fruit juice or tea is traditional with an Indonesian dinner, but you can also serve a dry white wine or beer. For dessert offer fruit or sherbet.

Spiced Twice-cooked Eggs
(Sambal Goreng Telur)

Combine ¼ cup salad oil, 2 small onions (cut in chunks), and 4 cloves garlic in a blender or food processor; whirl until puréed. Pour mixture into a wide frying pan over medium-high heat; cook, stirring often, until mixture is brown. Stir in ½ teaspoon crushed red pepper, 1 bay leaf, 2 tablespoons *each* sugar and lemon juice, 1 can (12 oz.) frozen coconut milk, thawed, and 1 cup water. Cook over high heat, stirring often, until mixture is very thick, 10 to 15 minutes. Set aside.

In a small deep pan, heat 2 to 3 inches salad oil to 375° on a deep fat frying thermometer. Remove shell from 12 hard-cooked eggs. With a slotted spoon, lower 2 or 3 eggs at a time into the hot oil. Cook until browned on all sides, then lift out and drain well.

Add deep fried eggs to coconut milk mixture and turn to coat all sides. Cool, cover, and chill if made ahead. Reheat over low heat or serve at room temperature. Makes 12 eggs.

Sour Vegetables *(Sayur Asam)*

- 6 tamarind pods or 4 tablespoons lemon juice
- Water
- 1 small onion, cut in chunks
- 1 clove garlic
- 3 cups regular-strength chicken broth
- 1 medium-size eggplant, cut in 2-inch chunks
- 1 bay leaf
- 2 teaspoons sugar
- ¼ teaspoon crushed red pepper
- ¼ pound green beans, cut in 2-inch lengths
- 2 to 3 ears fresh or frozen corn, cut in 1½-inch lengths
- ¼ pound beef top round, thinly sliced
- ½ medium-size head cabbage, cut in 2-inch chunks
- 1 to 3 tablespoons lemon juice
- Salt

Place tamarind pods (if used) in 1 cup water and soak overnight. Squeeze pods well and discard; set juice aside.

Place onion, garlic, and 2 tablespoons water in a blender or food processor; whirl until puréed. In a 5-quart kettle, bring 1 cup water to a boil, add onion mixture, cover, and cook over low heat for 10 minutes. Add the broth, eggplant, bay, sugar, and red pepper; cover and simmer for 10 minutes.

Add the beans, corn, beef, and ½ cup tamarind juice (or the 4 tablespoons lemon juice); keep covered and simmer for 5 to 6 minutes. Then add the cabbage and cook, covered, 2 to 3 minutes longer or until vegetables are tender yet still crisp to bite. Add lemon juice (as much as 3 tablespoons) and salt to taste. Cool, cover, and chill. Reheat or serve at room temperature. Makes 6 to 8 servings.

Fried Tofu Salad *(Tahu Goreng)*

- 1 package (16 oz.) tofu, drained
- Salad oil
- ½ pound bean sprouts
- Boiling water
- ½ large head iceberg lettuce, shredded
- 3 green onions, thinly sliced
- 1 tablespoon chopped celery leaves
- 1 medium-size cucumber, thinly sliced
- Peanut sauce (recipe follows)

Cut tofu into ½- by 1- by 1-inch pieces; pat dry. In a 3-quart pan, heat about 1 inch oil to 375°; add a few tofu pieces at a time and fry until lightly browned on all sides, 4 to 5 minutes. Lift out and drain. Repeat until all tofu is fried. Cover and chill as long as overnight.

Blanch bean sprouts by dropping them into a large pan of boiling water for 3 to 5 seconds; drain well, wrap, and chill. Combine lettuce, onion, and celery leaves; cover and chill.

To serve, arrange separate mounds of lettuce mixture, cucumbers, bean sprouts, and tofu on a platter; offer peanut sauce in a bowl for the dressing. Serves 6 to 8.

Peanut sauce. Remove peel and core from half of a medium-size pineapple. Cut flesh into chunks and place in a blender or food processor; whirl until finely chopped. (You should have 2 cups.) Combine the pineapple with 1 cup chunk-style peanut butter, 1 tablespoon

Start in anywhere *but don't forget the rice. Guest at right begins with rice. To go with it, clockwise, are sour vegetables, barbecued chicken and spiced twice-cooked eggs; next are grilled pork and shrimp on skewers and a fried tofu-vegetable salad, all eaten with a peanut sauce. A basket of crisp shrimp-flavored puffs finds space at the end*

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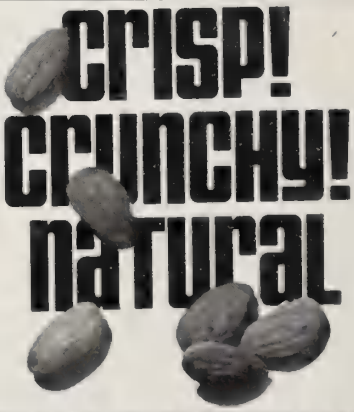

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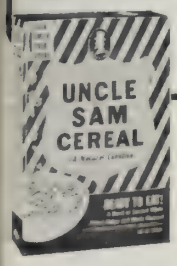

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each soy sauce and lemon juice, 2 tablespoons sugar, ½ teaspoon cayenne, and salt to taste. Cover and chill, if made ahead. Let come to room temperature before serving. Makes about 3 cups.

Grilled Pork *(Sate Babi)*

Cut 1 pound lean boneless pork butt into 1- by 2-inch strips, ¼-inch thick; place in a small bowl. Stir together 2 tablespoons *each* sugar, salad oil, and soy sauce; 1 tablespoon lemon juice; ½ small onion, minced; 2 cloves garlic, minced or pressed; and ⅛ teaspoon crushed red pepper. Pour soy mixture over meat and mix well. Cover and refrigerate for about 1 hour; stir several times.

Lift meat from marinade and thread 2 or 3 strips on each bamboo skewer. Place skewers on a grill 4 to 6 inches above hot glowing coals (or broil 2 to 3 inches below heat), turning as needed until browned on both sides and no longer pink in center, 10 to 12 minutes total. Makes 6 to 8 servings.

Grilled Shrimp *(Sate Udang)*

Prepare and cook as for grilled pork, substituting 1 pound (30 to 32 count) shrimp (shelled and deveined) for the meat. Cut cooking time to 8 to 10 minutes. Serves 6 to 8.

Barbecued or Roasted Chicken
(Ajam Panggang)

- 1 clove garlic, halved
- 1 small onion, quartered
- 2 tablespoons water
- 2 tablespoons salad oil
- ½ teaspoon crushed red pepper
- 6 tablespoons soy sauce
- 3 tablespoons *each* lemon juice and sugar
- ¼ teaspoon black pepper
- 3½-pound broiler-fryer chicken, cut up

Put the garlic, onion, and water in a blender and whirl until well minced.

Heat the oil in a 10-inch frying pan over medium-high heat; add the onion mixture and red pepper and cook, stirring often, for 10 minutes. Remove from heat and stir in soy, lemon juice, sugar, and black pepper; cool. Place chicken in a bowl, add the soy mixture, and turn chicken to coat all pieces. Cover and refrigerate overnight.

To barbecue, lift chicken pieces from marinade, drain briefly, and arrange on a lightly greased grill 4 to 6 inches above a bed of medium-glowing coals. Cook, covered or uncovered, turning frequently and basting with marinade until meat near bone is no longer pink when slashed, 45 to 55 minutes.

To roast, lift chicken pieces from marinade, drain briefly, and arrange, skin side down, on a lightly greased broiler pan rack. Bake, uncovered, in a 375° oven, basting with marinade and turning chicken once, for 45 to 55 minutes or until meat near bone is no longer pink when slashed. Makes 6 to 8 servings. □

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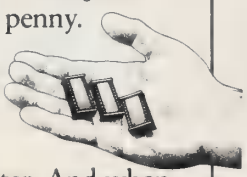

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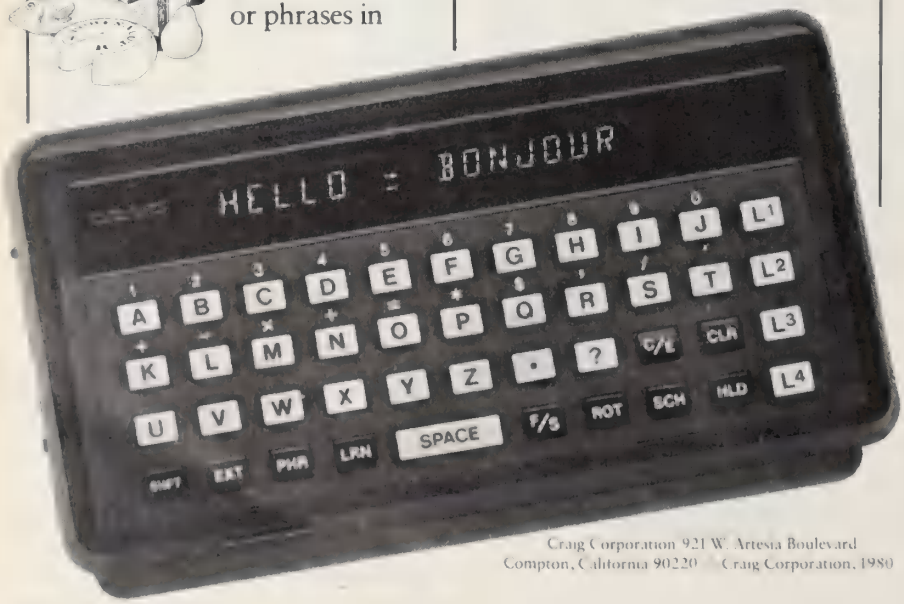

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Sherbets delicious and sugarless

If you continually search for light, satisfying desserts, these two sugarless sherbets should be welcome finds. Dates supply much of the sweetness in the first recipe; concentrated orange juice is the sweetener in the second.

Banana and yogurt, used in both sherbets, lend them their smoothness. Served in your prettiest stemware, either one might top off a company dinner.

Date Sherbet

- ¾ cup dates, pitted and chopped
- 1 cup light, fruity white wine (such as French Colombard or Chenin Blanc) or 3 tablespoons lemon juice with apple juice or water to make 1 cup
- 2 large ripe bananas
- 1 container (8 oz.) unflavored yogurt
- ¼ teaspoon ground nutmeg

In a food processor with metal blade or in a blender, combine dates and wine; whirl until dates are finely chopped. Add bananas in large chunks, yogurt, and nutmeg; whirl again until smooth. Pour into a shallow pan (about 8 inches square), cover, and place in freezer.

Break up the frozen mixture and whirl about ⅓ at a time in a food processor, or turn all the mixture into a bowl and beat until smooth. Serve in individual dishes or return to the pan and refreeze for later. If solidly frozen, allow to stand at room temperature about 10 minutes before serving. Makes about 1 quart (90 to 115 calories per ½-cup serving, depending on liquid used).

Orange-Banana Sherbet

- 1 can (6 oz.) frozen orange juice concentrate, partly thawed
- 2 large ripe bananas
- 1 cup (8 oz.) unflavored yogurt
- ½ cup light, fruity white wine (such as French Colombard or Chenin Blanc) or 1½ tablespoons lemon juice with water to make ½ cup

In the container of a food processor or in a blender, combine the orange juice concentrate and bananas, cut in chunks; whirl until smooth. Add the yogurt and wine and whirl until well blended. Pour into a shallow pan (about 8 inches square), cover, and freeze until firm.

Break up frozen mixture and whirl about ⅓ at a time in a food processor, or turn all the mixture into a bowl and beat until smooth. Serve in individual dishes or return to the pan and refreeze. If solidly frozen, allow sherbet to stand at room temperature about 10 minutes before serving. Makes about 1 quart (90 to 100 calories per ½-cup serving). □

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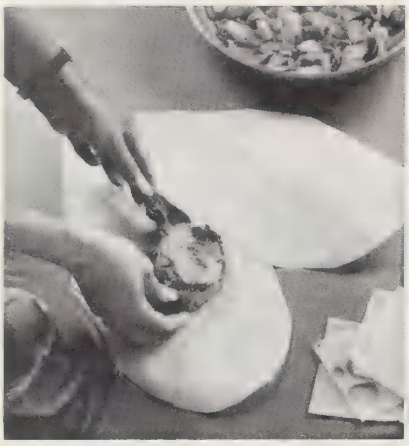
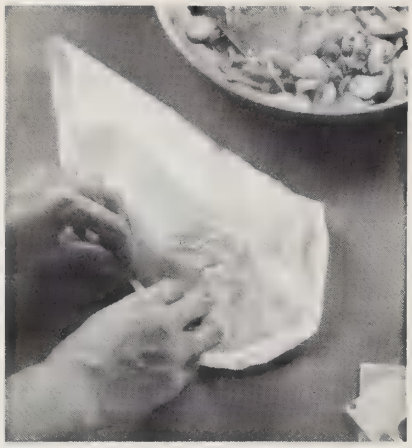
En papillote? Just meat cooked in paper wrapping



Next to center fold *of paper heart, place browned pork chop, then cheese slice and onion-apple mixture*



Heart's halves *enclose meat. Crimp paper at edges to make tight package, twist tip of heart to seal*

At the table, *neat heat-retaining paper packet opens to reveal succulent smoked pork chop under layer of slow-cooked onions and apples*

NORMAN A. PLATE

The words "en papillote" following a menu entry mean the dish is served in a parchment-paper packet. Usually associated with fancy restaurants, this cooking and serving method can easily be used at home, too.

Paper-wrapped meat entrées can be prepared completely ahead, then heated for serving. You cut baking parchment into large hearts and fill them with meat (we used smoked pork chops, lamb chops, or chicken) and a sauce or topping. Bake them until the paper hearts puff and brown and the meat inside gets hot and fragrant. You'll find that the paper wrapping helps keep food moist as it heats.

Baking parchment is usually shelved near paper supplies in grocery stores. If it's not available, use aluminum foil.

Smoked Pork in Paper Packets

In a wide frying pan, melt 1 tablespoon butter or margarine over medium heat. Add 4 smoked pork chops (about 1½ to 1¾ lbs. total) and cook until lightly browned on both sides. Lift out chops. Clean pan. Add 3 tablespoons butter or margarine to pan, 2 large onions in thin slices, and 2 large Golden Delicious apples, peeled and thinly sliced. Cook, stirring frequently, over medium-low to medium heat until limp and golden, about 15 to 30 minutes.

Fold 4 pieces of baking parchment or foil (each about 15 inches square) in half and cut each into a heart shape about 11 inches long by 14 inches wide.

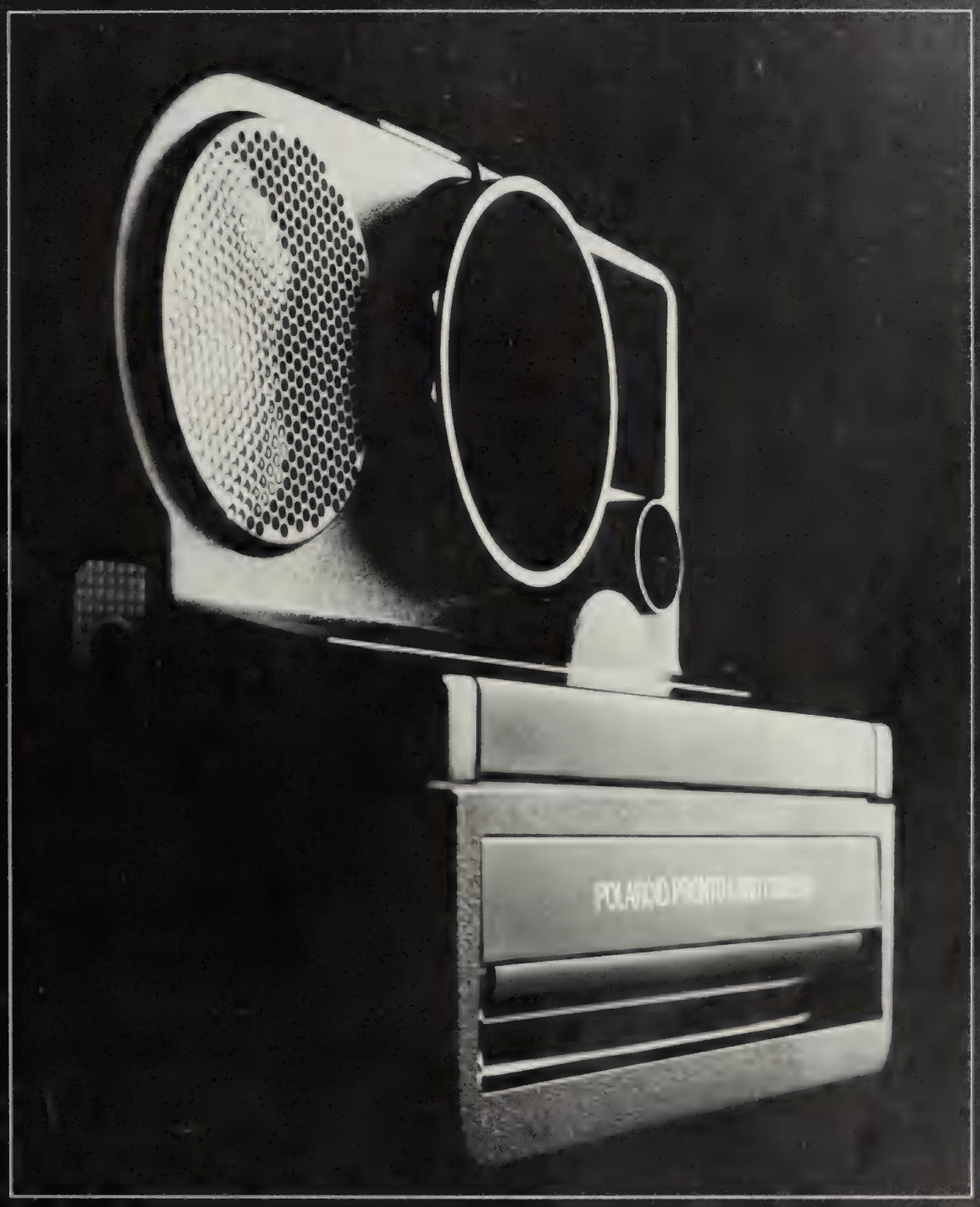
Place a chop in each paper heart next to the fold. Top each with a slice of Swiss cheese (about the same size as the chop) and an equal portion of the onion mixture. Fold other half of the heart over meat. Starting at rounded end, roll and crimp edges tightly together; twist tip of heart to seal. Place packets on cooky sheets. If using paper, brush tops of paper with melted butter or margarine.

Bake in a 450° oven until paper browns lightly and meat is hot, 8 to 10 minutes. (Or chill as long as 24 hours, then bake in a 400° oven for about 25 minutes.) To serve, pull packet open at edge or cut a cross in the top. Makes 4 servings.

Lamb and Leeks in Paper Packets

Trim root ends and tough green leaves off 1½ pounds leeks (2 or 3 leeks). Cut lengthwise and rinse well, then slice thinly crosswise. Also thinly slice ¼ pound mushrooms.

In a wide frying pan over medium heat, melt 1 to 2 tablespoons butter or margarine. Add 4 round-bone or shoulder lamb chops (about 1¼ to 1½ lbs. total) and cook until browned on both sides and medium-rare inside, about 5 minutes per side. Lift chops from pan and add leeks, mushrooms, and 1 clove minced or pressed garlic. Cook over medium heat until very limp and tender. Add salt to



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Polaroid's Pronto Sonar Land camera is built around one of the most ingenious advances in photography since the invention of the camera. Sonar automatic focusing. You push a button.

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But there is one. Polaroid's SX-70 Sonar. It has everything Pronto Sonar has and more. Single-lens reflex viewing, closeup capability to 10.4 inches. And it folds down to a slender, compact 1 by 4 by 9 inches handsomely covered in genuine leather and brushed chrome. And naturally, it's more expensive.

So when you consider the fact that you can own a Pronto Sonar for about half as much as an SX-70, it could make you think twice about which one to buy.

But the only way you might go wrong is not buying either one.

Polaroid's Pronto Sonar

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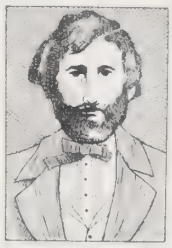
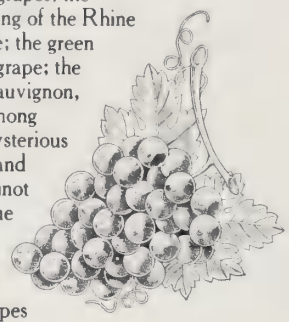
How California got its grapes



Most of the grapes that go into making fine California wines are not native, but European. It wasn't an accident that brought them across two continents and an ocean. It was one man's dream.

In exile from Hungary where his family had long been famous for winemaking, Count Agoston Haraszthy came to America, hopeful that somewhere in this vast country he could find the ideal conditions for growing grapes. After twelve years of disappointments, his search came to an end in northern California. Haraszthy was certain that here, in the beautiful Sonoma Valley, with its sunlight, rich soil and moist breezes, he could grow not only the hearty grapes planted by Mission Fathers, but all the delicate European varieties that were as yet unknown to American soil. With this hope in mind, in 1857, Haraszthy built the magnificent winery he named Buena Vista.

In just a few years, Buena Vista became the largest vineyard in the world. Its success convinced Haraszthy to realize his fondest hope, a journey to Europe to take cuttings from the finest grapes of France, Germany, Spain, and Hungary. He brought over, and made available to all California wine growers, close to 100,000 cuttings of 300 varieties. Among them were the Pinot Chardonnay, rare, white grapes; the white Riesling of the Rhine and Moselle; the green Hungarian grape; the Cabernet Sauvignon, aristocrat among reds; the mysterious Zinfandel; and the noble Pinot Noir, to name a few.



Over the last century, the grapes of the Buena Vista vineyards have flourished. And in the spirit of its visionary and single-minded founder, the Buena Vista winery has continued to masterfully produce a brilliant variety of wines with an old-world standard of excellence. Every bottle of Buena Vista is a toast to the man to whom California owes its most exquisite grapes, Count Agoston Haraszthy.

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BORDEN

taste, 1 tablespoon lemon juice, ½ teaspoon grated lemon peel, and ⅓ cup whipping cream. Bring to boiling; remove from heat.

Fold 4 pieces of baking parchment or foil (each about 15 inches square) in half and cut each into a heart shape about 11 inches long by 14 inches wide.

Place each chop in a paper heart next to the fold and top with an equal portion of the leek mixture. Fold other half of heart over meat. Starting at rounded end, roll and crimp edges together tightly; twist tip of heart to seal. Place on cooky sheets. If using paper, brush tops with melted butter or margarine.

Bake in a 450° oven until paper browns lightly and meat is hot, 8 to 10 minutes. (Or chill as long as 24 hours, then bake in a 400° oven for about 25 minutes.) To serve, pull open paper heart at edge or cut a cross in the top of each packet. Makes 4 servings.

Mustard Chicken in Paper Packets

Split and arrange 2 whole (about 1 to 1¼ lbs. *each*) chicken breasts in a wide frying pan. Add ½ cup dry white wine, 1 bay leaf, and enough water to barely cover meat. Cover and simmer until meat is no longer pink when slashed in thickest part, 15 to 20 minutes. Lift chicken out of pan. When cool, gently pull meat from bones, keeping meat in one piece. Remove and discard skin. Boil liquid, uncovered, until reduced to 1 cup. Remove bay leaf and set liquid aside.

In a pan, melt 3 tablespoons butter or margarine over medium heat. Add 1 large carrot, shredded; 2 whole green onions, thinly sliced; and 1 clove garlic, pressed or minced. Cook, stirring occasionally, until vegetables are limp. Sprinkle with 3 tablespoons all-purpose flour, then cook, stirring, until bubbly.

Gradually stir in reserved 1 cup broth; cook until mixture boils. Stir in 1 tablespoon Dijon mustard, ¼ teaspoon tarragon, and ½ cup half-and-half or milk. Add salt and white pepper to taste.

Fold 4 pieces of baking parchment or foil (each about 15 inches square) in half and cut each into a heart shape about 11 inches long by 14 inches wide.

Place half a breast in each paper heart near the fold. Top with an equal portion of the sauce. Fold other half of heart over chicken. Starting at rounded end, roll and crimp edges together tightly; twist tip of heart to seal. Place on cooky sheets. If using paper, brush top with melted butter or margarine.

Bake in a 450° oven until paper browns lightly and chicken is hot, 8 to 10 minutes. (Or chill as long as 24 hours, then bake in a 400° oven for about 25 minutes.) To serve, pull open paper heart at edge or cut a cross in the top of each packet. Makes 4 servings. □

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Crustless *and easily assembled, crowd-size quiche bakes in jelly-roll pan. Garnish olive- and corn-studded squares with avocado and tomato*

GLENN CHRISTIANSEN

Quiches made in the morning save time as the day wears on

Last-minute party bustle is minimized when the main dish is one of these no-crust quiches. All three can be baked early in the day, then reheated or served at room temperature for a brunch, luncheon, or light supper entrée. Warm crusty bread and fresh fruit could complete the simple menu.

Baked in a jelly-roll pan, each quiche cuts into 12 to 18 squares. Or, for a cocktail party, one pan makes about 60 bite-size hors d'oeuvres.

Tuna Quiche

- 9 eggs
- 1½ cups half-and-half (light cream) or milk
- 1 teaspoon prepared horseradish
- 1 tablespoon lemon juice
- ½ to ¾ teaspoon salt
- ½ teaspoon dry basil
- 2 large cans (12½ oz. *each*) chunk-style tuna, well drained
- 1 package (10 oz.) frozen peas, thawed
- 1 can (about 8 oz.) water chestnuts, drained and chopped
- ⅓ cup sliced green onion
- 1½ cups *each* shredded jack and Cheddar cheese

In a large bowl, beat eggs and half-and-half just until blended. Mix in horseradish, lemon juice, salt, and basil. Stir in the tuna, peas, water chestnuts, green onion, jack cheese, and 1 cup of the Cheddar cheese.

Pour mixture into a greased 10- by 15-inch jelly-roll pan. Top with remaining Cheddar. Bake in a 375° oven for 25 to 30 minutes, or until a knife inserted in the center comes out clean. Let stand 10 minutes. Makes 12 to 18 servings.

Mexican Quiche

- 1 package (16 oz.) chorizo sausage
- 2 medium-size onions, chopped
- 1 teaspoon salt
- ⅛ teaspoon pepper
- 4 tablespoons diced green chilies
- 10 eggs
- 2 cups half-and-half (light cream) or milk
- 1 can (2¼ oz.) sliced ripe olives, drained
- 1 can (8¾ oz.) whole kernel corn, drained
- 3 cups shredded jack cheese
- Avocado and tomato slices
- Fresh coriander (cilantro) sprigs

Remove casings (if necessary) from chorizo. Crumble or finely chop meat and place in a wide frying pan; cook, stirring, over medium-high heat until browned. Add onions and sauté until tender. Drain off excess fat. Stir in salt, pepper, and chilies. Remove from heat.

In a large bowl, beat eggs and half-and-half just until blended. Stir in chorizo mixture, olives, corn, and cheese. Evenly spread in a greased 10- by 15-inch jelly-roll pan.

Bake in a 375° oven for 25 to 30 minutes or until a knife inserted in the center comes out clean. Let stand 10 minutes. Garnish with avocado, tomato, and coriander. Makes 12 to 18 servings.

Vegetable Quiche

- 2 medium-size cauliflower (about 1 lb. *each*)
- 2 medium-size bunches broccoli (about 1½ lbs. *each*)
- Boiling salted water
- 2 tablespoons butter or margarine
- 2 medium-size onions, chopped
- 3 cloves garlic, minced or pressed
- 1½ teaspoons *each* dry basil, oregano leaves, and salt
- ½ teaspoon *each* pepper and liquid hot pepper seasoning
- 4 tomatoes, chopped
- 8 eggs
- ⅔ cup half-and-half (light cream) or milk
- ½ cup grated Parmesan cheese
- 2½ cups shredded Swiss cheese

Wash and trim cauliflower and broccoli into flowerets. In a 5-quart saucepan, cook vegetables in boiling salted water until tender, about 6 to 8 minutes. Drain well, coarsely chop, and set aside.

In a wide frying pan, melt butter over medium heat. Sauté onions and garlic until tender. Add cooked vegetables, basil, oregano, salt, pepper, liquid hot pepper seasoning, and tomatoes; cook, stirring occasionally, until mixture is heated through, about 4 minutes. Remove from heat.

In a large bowl, beat eggs and half-and-half just to blend. Stir in vegetable mixture, Parmesan cheese, and 2 cups of the Swiss cheese. Pour into a greased 10- by 15-inch jelly-roll pan and spread evenly. Top with remaining cheese.

Bake in a 375° oven for 30 to 35 minutes or until a knife inserted in the center comes out clean. Let stand 10 minutes. Makes 12 to 18 servings.—*K. Y., Nederland, Colo.* □

DARROW M. WATT

Tangy clam sauce *tops layers of lasagna noodles, spinach, and cheese for this informal dinner entrée*

Three make-a-day-aheads... each is a seafood casserole

Seafood's the idea behind three different make-ahead casseroles we suggest this month. The similarity ends there.

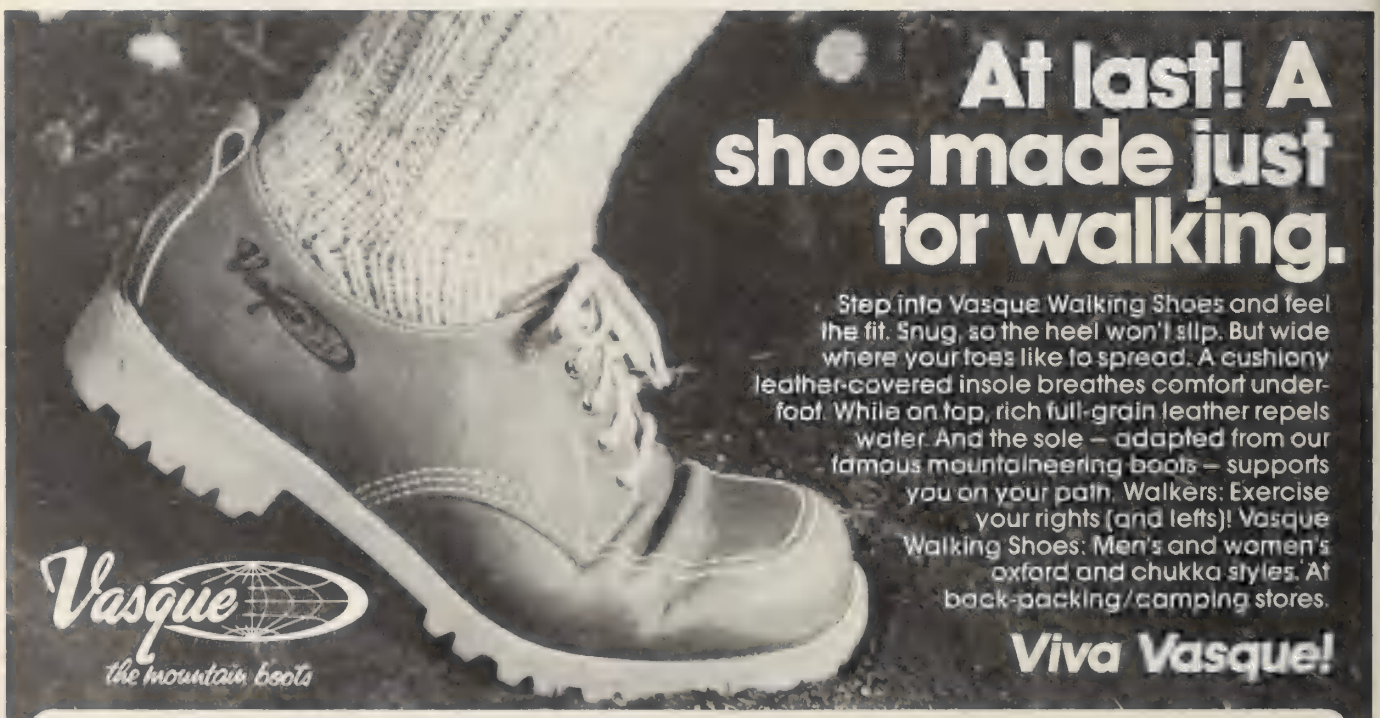
In the first casserole, a lemon-garlic sauce with minced clams binds layers of noodles, spinach, and cheese. The second combines some ingredients that may surprise you: rockfish fillets, potatoes, and sauerkraut. Our third recipe is for a cheese-and-fish strata spiked with green chilies; you choose the fish.

All three casseroles can be made a day ahead. Round out the meal with a mixed green salad and crusty rolls.

Layered Clam and Noodle Casserole

- 1 box (8 oz.) lasagna noodles
- 2 cans (6½ oz. *each*) minced clams
- ¼ cup *each* butter or margarine and all-purpose flour
- 1 bottle (8 oz.) clam juice
- 2 cloves garlic, minced or pressed
- 1 teaspoon Italian herb seasoning or ½ teaspoon *each* dried basil and oregano leaves
- ¼ cup finely chopped parsley
- 3 tablespoons lemon juice
- Pepper
- 1 carton (16 oz.) cottage cheese or ricotta cheese
- 1 package (10 oz.) frozen chopped spinach, thawed
- ½ pound jack cheese, thinly sliced
- About ¼ cup grated Parmesan cheese

Cook noodles according to package directions; rinse and drain. Also drain



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the clams and reserve their liquid.

In a 2- to 3-quart saucepan, melt butter over medium heat. Stir in flour and cook until bubbly. Remove from heat and gradually stir in reserved clam liquid and the clam juice.

Cook, stirring, until mixture boils and thickens, about 5 minutes. Remove from heat and stir in clams, garlic, herb seasoning, parsley, and lemon juice; add pepper to taste.

Line the bottom of a greased shallow 3-quart baking dish with ⅓ of the noodles. Spoon cottage cheese evenly over noodles and top with about ⅓ of the clam sauce. Add a second layer of noodles.

Squeeze the thawed spinach to remove as much water as possible; arrange over noodles. Arrange half of the jack cheese slices over top, then spread with half of the remaining clam sauce.

For the third layer, add remaining noodles, cheese slices, and clam sauce. If made ahead, cover and refrigerate.

Sprinkle Parmesan cheese lightly over top and bake, uncovered, in a 350° oven for about 30 minutes (if chilled, about 45 minutes) or until hot and bubbly. Let casserole stand for about 10 minutes before serving. Makes 6 to 8 servings.—*L. F., Phoenix.*

Rockfish and Potato Casserole

- 4 medium-size (about 2 lbs.) thin-skinned potatoes
- ¼ cup (4 tablespoons) butter or margarine
- 2 large onions, chopped
- ⅛ cup all-purpose flour
- 1 cup *each* regular-strength chicken broth and milk
- Salt and pepper
- 2 pounds rockfish fillets (such as red snapper or rock cod)
- 1 can (16 oz.) sauerkraut, well drained
- Paprika

Cook potatoes in a vegetable steamer for about 25 minutes or until tender when pierced with a fork; cool.

In a 3- to 4-quart saucepan, melt butter over medium heat. When hot, add onions and cook, stirring, until limp, about 10 minutes. Sprinkle flour evenly over onions and stir to mix. Gradually stir in chicken broth and milk; cook, stirring constantly, until sauce boils and thickens. Add salt and pepper to taste.

To assemble, slice potatoes (peeled, if desired) and arrange in the bottom of an ungreased shallow 3-quart baking dish; top with ⅓ of the sauce. Arrange fish fillets over potatoes and spoon half of the remaining sauce over fish. Finally, arrange sauerkraut evenly over fish and top evenly with remaining sauce; sprinkle lightly with paprika. If made ahead, cover and refrigerate.

Bake, covered, in a 350° oven for about 35 minutes (if chilled, about 50 minutes) or until fish in center is opaque (poke with fork to test). Makes about 10 servings.—*L. K., Portland.*

Seafood and Green Chili Strata

Lightly butter one side of 6 slices firm, white bread; cut into ½-inch cubes. Have ready 3 cups (about ¾ lb.) shredded sharp Cheddar cheese, 1 large (4 oz.) or 1 small (2 oz.) can diced green chilies, and 2 cans (about 7 oz. *each*) salmon or chunk-style tuna (drained) *or* 2 cups cooked lean white fish (such as rockfish, sole, haddock, or perch).

Sprinkle half the bread cubes in a greased shallow 2½-quart baking dish; top evenly with half of the cheese, then half of the chilies. Arrange fish evenly over chilies. Top with remaining bread cubes, then cheese, then chilies.

In a bowl, beat together 4 eggs, 2 cups milk, 1 teaspoon *each* salt and prepared horseradish, and ¼ teaspoon pepper; pour over casserole. Cover and chill at least 8 hours or overnight.

Bake, uncovered, in a 350° oven for about 50 minutes or until top is puffy and richly golden. Let stand 10 to 15 minutes before serving. Makes about 8 servings. □

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Roll, cut, bake your own grahams

Wholesome favorites of young and old alike, graham crackers are easy to make. Simply roll out chilled dough directly onto baking sheets, cut into squares, and bake.

These crisp, slightly sweet grahams have hearty whole-grain flavor. Serve them as is with a glass of milk or cup of coffee, or top with nutty caramel to make easy graham cracker pralines.

Homemade Graham Crackers

- ¾ cup (⅜ lb.) butter or margarine
- ¼ cup honey
- ½ cup packed brown sugar
- 1 teaspoon vanilla
- 3 cups graham or whole wheat flour
- ½ cup wheat germ
- 1 teaspoon *each* salt and ground cinnamon
- ½ teaspoon baking powder
- ¾ cup water

With an electric mixer, beat together butter, honey, brown sugar, and vanilla until fluffy; scrape bowl often. In another bowl, stir together flour, wheat germ, salt, cinnamon, and baking powder. With mixer on low speed, add flour mixture alternately with water to creamed mixture, blending well after each addition. Cover and chill at least 1 hour or overnight.

Divide dough in half. Wrap and rechill 1 portion and pat out remaining dough on a lightly floured board into a ½-inch-thick rectangle. Place on a lightly greased 12- by 15½-inch baking sheet and roll out with a floured rolling pin until dough completely covers baking sheet and is an even ⅛ inch thick. Trim edges with a knife. If dough becomes too soft, chill until firm. Using a floured pastry wheel or knife and a ruler, cut dough into 3-inch squares. Prick each 3 times with a fork.

Bake in a 325° oven until very lightly browned, about 30 minutes (remove crackers around edges of baking sheet if they brown more quickly than center crackers). Cool on wire racks. Repeat with remaining dough. Store airtight. Makes 40 crackers.

Cracker Pralines. Cover a 12- by 15½-inch baking sheet with 20 baked Homemade Graham Crackers. Chop ½ cup walnuts or almonds; set aside.

In a heavy 1½-quart saucepan, combine ½ cup *each* packed brown sugar and butter or margarine. Bring to boiling over medium heat, stirring constantly. Stir and boil gently (reduce heat if necessary) for 5 minutes. Remove from heat and stir in the nuts, ½ teaspoon vanilla, and ¼ teaspoon ground cinnamon.

Working quickly, immediately drizzle mixture over crackers and spread evenly with a small spatula. Bake in a 275° oven for 10 minutes, then carefully transfer to wire racks to cool. Cool completely and package airtight to store. Makes 20 pralines. □

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THE SCIENCE OF BEAUTY

DARROW M. WATT

Dad serves Mom *from the grill: thin strips of marinated flank steak on a French roll and peas in pods, cooked in foil to stay tender, flavorful*

MAY MENUS

Flank steak barbecue for Mother's Day, quick-to-the-table spaghetti supper, Oriental chicken salad lunch

For Mother's Day, we've turned Dad outdoors, armed with an easy menu he can cook all at once on the barbecue. Featuring flank steak sandwiches, this meal is equally appropriate for a Memorial Day picnic.

For busy weekday meals, spaghetti with mushrooms and salami can be put together in minutes. And when you invite lunch guests, you might serve Oriental chicken salad with a light strawberry cake roll for dessert. It's an elegant lunch, fine for a warm spring day.

Barbecue for Mother

This barbecue menu is easy enough for the novice cook to handle—the whole meal cooks on the grill at the same time. We suggest serving the flank steak in rolls for sandwiches, but you could offer crusty rolls on the side and serve the steak with the extra sauce to spoon over.

Tangy Flank Steak Sandwiches
Foil-wrapped Peas in Pods
Watermelon Wedges Iced Tea or Wine

Marinate the steak the night before. Then about 45 minutes before serving, prepare the barbecue fire. While the coals burn down, you can wrap the peas and cut the melon.

Tangy Flank Steak Sandwiches

- ⅔ cup catsup
- ½ cup water
- ⅓ cup lemon juice or dry red wine
- 2 teaspoons Worcestershire
- 1 teaspoon celery seed
- 2 bay leaves
- ½ teaspoon pepper
- ¼ teaspoon dry basil
- 1 flank steak (about 1½ lbs.)
- 4 to 6 French rolls, split
- Lettuce leaves
- 1 mild onion or green pepper, thinly sliced
- 2 tomatoes, thinly sliced

In a small pan, combine the catsup, water, lemon juice, Worcestershire, celery seed, bay leaves, pepper, and basil. Simmer, uncovered, stirring occasionally, for 10 minutes. Let marinade cool.

Meanwhile, use a sharp knife to lightly score both sides of the steak, making diagonal cuts across the steak about 1 inch apart to form a diamond pattern. Place meat in a dish or pan and pour cooled marinade over meat to coat all sides. Cover and chill about 24 hours.

Cook meat on a greased grill about 4 inches above a solid bed of glowing coals until done to your liking (allow 5 to 7 minutes each side for medium-rare). Pour extra marinade into a small pan and heat on the grill or on the range until hot and simmering. About 3 to 5 minutes before meat is done, place rolls, cut side down, around outside of grill to toast.

To serve, cut meat across the grain in thin slanting slices. Place lettuce, onion, and tomato on rolls; top with sliced

Summer Salmon.

Delicate salmon, crisp garden greens and shell macaroni stack up to make a delicious light summer meal in a bowl. Top with chilled dill dressing made creamy with KRAFT Real Mayonnaise, and this delightful salad tosses itself as you serve it.

SUMMER SALMON

1-1/2 cups KRAFT Real Mayonnaise
1/4 cup milk
1 tablespoon chopped onion
1/2 teaspoon dill weed

* * *

2 cups shredded lettuce
2 cups (7 ozs.) shell macaroni, cooked, drained
1/2 cup pitted ripe olive halves
2 cups chopped tomato
2 cups cucumber slices, halved
1 15-oz. can salmon, drained, flaked

Combine mayonnaise, milk, onion and dill; mix well. Chill.

In 3-quart bowl, layer lettuce, combined macaroni and olives, tomato, cucumber and salmon; top with 3/4 cup dressing. Garnish with dill weed, if desired. Serve with remaining dressing.
6 to 8 servings

When it's the mayonnaise that makes it, make it KRAFT.

KRAFT

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meat; and spoon over some of the extra marinade. Makes 4 to 6 sandwiches.—*M. K., Bainbridge Island, Wash.*

Foil-wrapped Peas in Pods

Rinse 2 pounds whole unshelled peas. Divide into 4 equal portions. Place each portion on a large sheet of heavy duty foil. Sprinkle with salt and 1 tablespoon water. Wrap tightly and place on grill about 4 inches above coals. Cook, turning occasionally, until peas are tender, 10 to 15 minutes. To eat, put whole pod between your teeth, bite lightly, and pull —the peas pop into your mouth. Makes 4 servings.

Quick-to-the-table family supper

This pasta dish cooks so quickly, you can start the water boiling for the noodles before you sauté vegetables and salami for the light sauce.

DARROW M. WATT

Add hot cooked noodles *to a flavorful sauce of salami, mushrooms, and cream*

Crisp Romaine Salad
Salami and Mushroom Spaghetti
Breadsticks or Crusty Bread

For the salad you might mix romaine leaves with marinated artichoke hearts, olives, and cherry tomatoes.

Salami and Mushroom Spaghetti

Cook 8 ounces spaghetti in a large quantity of boiling salted water until barely tender, according to package directions. Meanwhile, in a large frying pan, melt 3 tablespoons butter or margarine over medium-high heat. Add 4 to 5 ounces dry salami cut in thin strips, ½ pound mushrooms cut in thin slices, and 4 green onions, thinly sliced. Cook, stirring frequently, until mushrooms are limp and pan juices have evaporated. Reduce heat to low, add ⅓ cup half-and-half (light cream), and heat through. Drain noodles well, then add to frying pan. Lightly toss noodles and sauce, then add ½ cup grated Parmesan cheese and toss until noodles are evenly coated. Makes 4 servings.—*C. A., Chico, Calif.*

A spring day salad luncheon

Crumbled dry noodles from packaged Oriental soup mix add crunchiness to this lightly dressed cabbage and chicken salad. For dessert, serve a seasonal treat of lemony sponge cake roll filled with whipped cream and fresh strawberries.

Oriental Chicken Salad
with Crunchy Noodles
Warm Dinner Rolls Butter
Lemon Nut Berry Roll

For the salad, you can use leftover cooked chicken, or cook a 3½- to 4-pound broiler-fryer. To make the meal easier, prepare salad ingredients a day ahead, then toss with the dressing within

Good old Reynolds Wrap® is on the same wave length as your microwave oven.

Surprise! Your old friend, Reynolds Wrap, can help your super-modern microwave oven shine. To make the most of your next roast, start the cooking in your microwave oven, and finish it outside in Reynolds Wrap.

In the microwave cooking process, your meat continues to cook even after it leaves the oven. So, to avoid overcooking, be sure to remove the roast *before* it is completely done. Then cover with Reynolds Wrap and let it stand and finish cooking for 10-15 minutes. This "standing time" step helps guarantee a perfect roast.

You'll find 28 pages of information and inspiration, plus $1-worth of Reynolds Wrap coupons, in "Reynolds Wrap and Microwave Cooking." To get your copy, just send 50¢ to cover postage and handling to: "Reynolds Wrap & Microwave Cooking" Booklet, P.O. Box 6704, Richmond, VA 23230.

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Common sense says the Magic Chef gas range that saves energy saves money.

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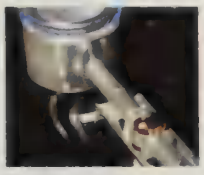
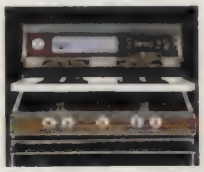
Barbara Nicklaus

This new 1980 Magic Chef pilotless gas range uses 49% less energy.*

Magic Chef's new 1980 ranges have a great new look. Totally re-designed. New beauty outside. New energy-saving inside. Actually, this new Magic Chef 30″ pilotless gas range uses 49% less gas than our last year's conventional pilot-type ranges. And that means lower fuel expense, too. New Magic Chef electric ranges and refrigerators also have impressive energy-saving stories. Clearly, affordable beauty has grown into common sense thrift.



Energy-saving: pilotless ignition uses gas only when you're cooking.



Work-saving: cooktop lifts up, lifts off for simple cleaning.

*In energy consumption tests based on DOE procedures, Magic Chef's new designed 1980 conventional 30″ gas ranges with pilotless ignition use up to 49% less energy annually than the 1979 30″ gas ranges with standing pilots.

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Takes the work out of homework.™

Oh the lovely nutty things you can do with Diamond® Walnuts.

Layers of toasted Diamond Walnuts, cheese and vegetables topped by a creamy dressing give this simple make-ahead salad its elegant touch.

Layered Walnut Salad

1 cup Diamond Walnuts
1 tsp. salad oil
¼ tsp. garlic salt
⅛ tsp. dill weed
4 cups finely shredded iceberg lettuce
6 to 8 cherry tomatoes, halved
1 cup shredded Cheddar cheese
1 package (10 oz.) frozen peas, cooked and cooled
Creamy Dressing

Turn walnuts into saucepan of rapidly boiling water. Boil 3 minutes. Drain well. Toss with oil, garlic salt and dill weed on shallow baking pan. Toast at 350° F. 10 to 12 minutes, stirring once. Cool. Arrange in order in straight-sided glass bowl (6½ in. diameter, 3½ in. deep) 2 cups lettuce, a row of cherry tomatoes, cut sides against glass, cheese, cooked peas, ¾ cup walnuts and remaining lettuce. Top with 1 cup Creamy Dressing, spreading in an even layer completely to edge of bowl. Cover; chill several hours or overnight. At serving time, add remaining dressing and sprinkle with reserved walnuts. Makes 6 servings.

Creamy Dressing: Stir together ¾ cup mayonnaise, ½ cup dairy sour cream, 1 Tbsp. lemon juice, 1 tsp. prepared mustard, ½ tsp. salt, 2 Tbsp. chopped green onion and 2 tsp. chopped parsley. Makes 1½ cups.

a couple of hours before serving. You can also make the cake ahead, filling it 1 to 2 hours before serving.

Oriental Chicken Salad with Crunchy Noodles

12 cups shredded cabbage (about a 2-pound head)
4 whole green onions, thinly sliced
3 to 4 cups shredded cooked chicken
2 tablespoons sugar
¼ cup white vinegar
⅓ cup salad oil
½ teaspoon pepper
1 package (3 oz.) Oriental noodle soup mix
⅓ cup slivered almonds
3 tablespoons sesame seed

In a large salad bowl, combine the cabbage, green onion, and chicken; cover and chill, if made ahead. In a small bowl, stir together the sugar, vinegar, oil, pepper, and flavor packet from the noodle soup; stir until sugar is dissolved. Pour dressing over cabbage mixture and toss together. Cover and chill up to 2 hours.

Meanwhile, toast the almonds in a frying pan over low heat, shaking pan frequently, until lightly browned, 5 to 6 minutes. Remove from pan and add sesame seed. Cook over low heat, stirring often until golden, about 2 minutes.

Just before serving, crumble the dry noodles from the soup mix into the salad. Also add the nuts and sesame seed; toss together. Makes 6 whole-meal servings.—*M. B., Renton, Wash.*

Lemon Nut Berry Roll

In a large bowl of an electric mixer, beat 4 egg whites until foamy. With mixer on high speed, gradually beat in ½ cup sugar until stiff peaks form.

In a small bowl of the electric mixer, beat 4 egg yolks until light. Gradually add ¼ cup sugar, beating until thick and creamy. Mix in 1 tablespoon *each* grated lemon peel and juice. Stir together ½ cup all-purpose flour and ¾ teaspoon baking powder; stir into egg yolk mixture until well blended. Then fold egg yolk mixture and ½ cup finely chopped nuts into egg whites just until blended.

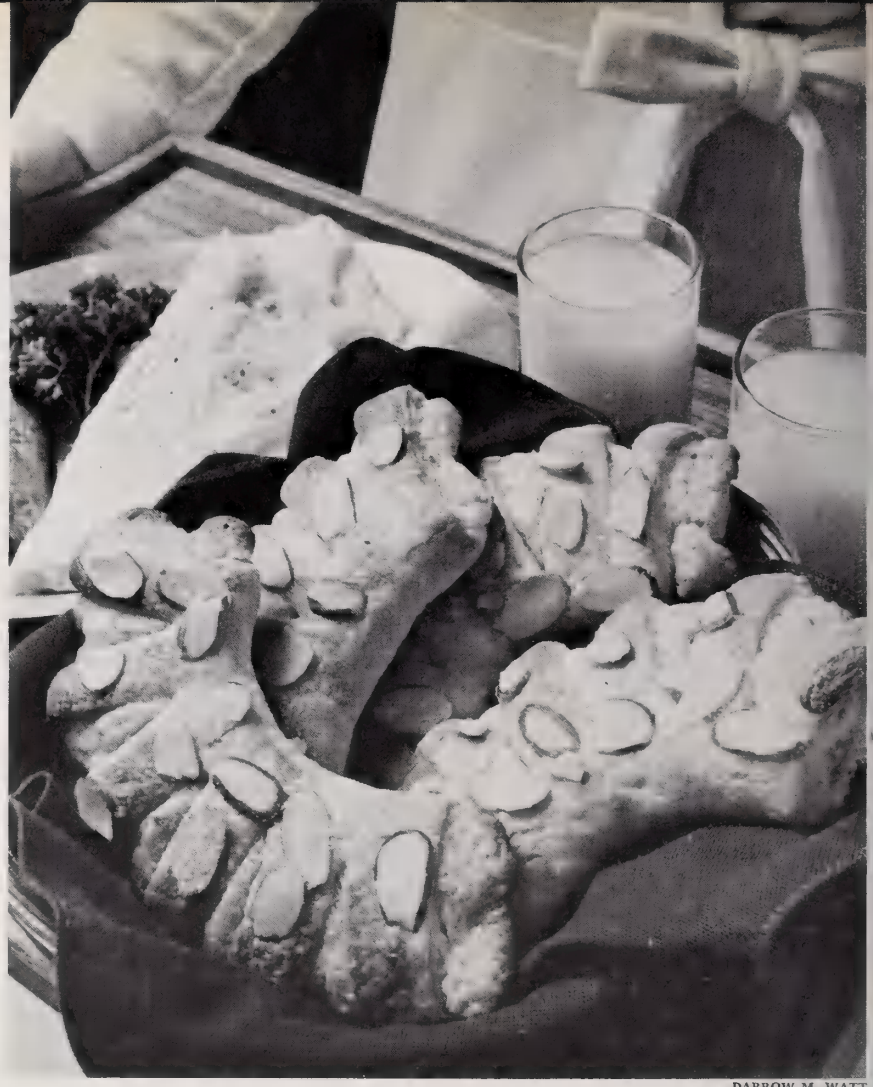
Line a 10- by 15-inch greased jelly-roll pan with waxed paper; also grease the paper. Spread batter into pan and bake in a 375° oven until top springs back when touched, about 13 minutes. Immediately invert cake onto a towel sprinkled with powdered sugar; remove paper. Starting from the narrow end, roll cake in towel into a cylinder; cool completely.

Beat 1 cup whipping cream until stiff. Fold in about 2 tablespoons powdered sugar. Unroll cake and spread whipped cream over cake. Scatter 1½ cups thinly sliced strawberries on top. Roll up, place on a serving plate, and chill up to 2 hours. Sprinkle with powdered sugar and garnish with whole berries just before serving. Makes 6 to 8 servings.—*M. K., Stockton, Calif.* ◻

Look again!

You are reading this through a glass washed in Dishwasher **all**. The reason it's so sparkling clean and clear is the special Rinse Agent Formula in Dishwasher **all**. It gets everything spotless as can be.

Fold edges *of each strip over filling; cut each into 6 segments. On baking sheet, cut the "claws" and fan them out*



DARROW M. WATT

Basketful *of home-baked bear claws looks fiercely professional*

What's baking? A batch of easy bear claws

Rich and almondy, bear claws are usually considered a bakery specialty. But with our easy refrigerator dough and streamlined technique, you can make some that rival the best you can buy.

You just stir the butter-rich yeast dough together and chill it for one to three days—it doesn't even require kneading. Then roll out the dough, fill, cut, and bake it as directed. Our recipe makes 18 bear claws—some to serve freshly baked, some to freeze for another occasion.

Buttery Almond Bear Claws

- 1 cup (½ lb.) butter or margarine
- 1 package active dry yeast
- ¼ cup warm water (about 110°)
- ¼ cup sugar
- 3 eggs, separated
- ½ teaspoon salt
- 1 small can (about 5 oz.) evaporated milk
- 3⅓ cups all-purpose flour
- Almond filling (recipe follows)
- About ¾ cup sliced almonds
- Granulated sugar

Melt the butter, then let cool to 110°.

Dissolve the yeast in the water, then stir in the ¼ cup sugar, the egg yolks (reserve whites), salt, evaporated milk, and cooled butter. Stir into the flour and mix well. Cover and chill at least 24 hours (up to 3 days).

Meanwhile, prepare and chill the almond filling.

To shape bear claws, roll out dough into a 13½- by 27-inch rectangle on a well-floured board, straightening edges with a ruler as you roll. Cut dough lengthwise into 3 long strips, each 4½ inches wide. Divide the almond filling into 3 portions and roll each into a 27-inch rope on a floured board. Lay one filling rope in the center of each dough strip and flatten rope slightly.

Fold long sides of each strip over filling, overlapping slightly. Cut each filled strip into 6 segments, each 4½ inches long. Arrange the 18 segments, seam side down, on 3 greased baking sheets. With a floured sharp knife, make a row of cuts halfway across each segment and about ½ inch apart, as shown above. Curve each bear claw so it fans out.

Lightly beat the remaining 1 egg white and brush over bear claws; then top with sliced almonds and sprinkle lightly with granulated sugar. Let rise, uncovered, in a warm place until puffy, about 20 minutes.

Bake in a 375° oven until golden brown, about 15 minutes. Transfer to wire racks to cool. Package airtight to store or freeze. Makes 18.

To reheat the bear claws, unwrap and thaw them first, if frozen. Heat, uncovered, on a baking sheet in a 350° oven for about 10 minutes or until warmed through.

Almond filling. Smoothly blend together ½ cup (¼ lb.) butter or margarine (at room temperature) with 1⅓ cups unsifted powdered sugar. Add ⅔ cup all-purpose flour and 7 or 8 ounces (about 1 cup) almond paste. Stir until crumbly and evenly mixed, then beat in 1 teaspoon grated lemon peel and 2 of the reserved egg whites. Stir in ¾ cup finely chopped almonds. Cover and chill until firm—1 to 3 days. □

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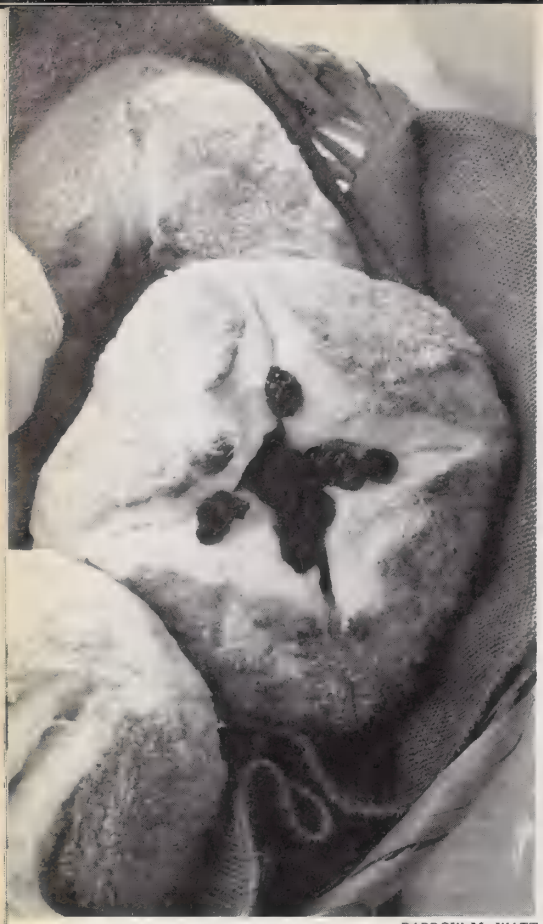

DARROW M. WATT

Currant-filled scones *are cinnamon and sugar-crusted Eccles cakes, served piping hot for breakfast*

British breakfast treats, currant filled

The tea cakes from Eccles, a borough in Lancashire, England, are known for rich scone dough and a currant or fruit filling. You can make these British treats with or without the filling, or with part whole-wheat flour if you wish. Serve them warm with butter and jam for breakfast or with midday tea or coffee.

Eccles Cakes or Scones

- 1¾ cups all-purpose flour (or use ¾ cup whole-wheat and 1 cup all-purpose flour)
- 2¼ teaspoons baking powder
- 1 tablespoon sugar
- ¼ teaspoon salt
- ¼ cup (4 tablespoons) butter or margarine
- 2 eggs, beaten
- ⅓ cup half-and-half (light cream) or milk
- 2 tablespoons currants (optional)
- About 1 teaspoon butter (optional)
- 2 tablespoons sugar with ¼ teaspoon ground cinnamon

Mix together the flour, baking powder, the 1 tablespoon sugar, and salt. With a pastry blender or two knives, cut in the ¼ cup butter until the mixture resembles coarse meal. Set aside 2 teaspoons of the beaten egg and mix remaining egg with the cream. Make a well in the center of the flour mixture, add egg-cream mixture, and stir just until blended. Turn dough out on a lightly floured board and knead lightly (about 15 times) until dough is no longer sticky.

Roll out dough to a ¾-inch thickness. With a cutter, cut 2½-inch rounds and place them about 1½ inches apart on a greased baking sheet. Reroll scraps.

For Eccles cakes, poke a hole into the center of each round; fill with 1 teaspoon of the currants and a pea-size dot of butter. Pinch opposite edges of circle together in the center, enclosing currants in dough (dough will pull apart slightly while baking to form an X on top).

Brush tops of Eccles cakes or the unfilled scones with reserved egg, and sprinkle with cinnamon-sugar. Bake in a 450° oven for 12 minutes, or until golden. The cakes or scones are best served freshly baked and warm. Makes 6. □

T.G.I.F.©

Celebrate the weekend with California Avocados and Wakefield.

You're done doing for others. Now it's time to do for yourself. And we don't think you can do better than this. A cool, golden-green California Avocado half shell, heaped high with this succulent Wakefield Snow Crabmeat salad. Then smothered with your favorite dressing. Mmmm. Monday morning is a million miles away!

The California Avocado Snow Boat

2 California avocados, peeled, halved and pitted
1 (6 oz.) pkg. Wakefield Alaska Snow Crabmeat
¼ cup sliced ripe black olives
¼ cup thinly sliced radishes
4 leaves of leaf lettuce

Thaw and drain crabmeat. Arrange crabmeat, olives and radishes on avocado halves. Place each avocado half on a leaf of lettuce (as pictured) and spoon on dressing. Makes 4 servings.

Love Food from California

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Wakefield® Fine Alaska Seafood

There's no place like home for a great dinner out!

You don't have to eat in a restaurant for good food and fun times. Stay home and barbecue. Gulf Lite and "one match" is all it takes to light your barbecue fire. Clean, fast-burning Gulf Lite adds no soot, no odor, no taste. So try this great new recipe—and don't forget to use Gulf Lite.

Lemonade Chicken

Cut 2 3-lb. fryer chickens into serving pieces. Combine 1 6-ounce can frozen lemonade concentrate (thawed), 1/3 cup soy sauce, 1 tsp. seasoned salt, 1/8 tsp. garlic powder. Blend well. Dip chicken in mixture, place bone side down, over medium-hot coals. Grill about 25 minutes. Turn, bone side up, grill about 15 to 20 minutes more. Brush chicken with lemonade mixture frequently last 10 minutes. Makes 8 servings.

Barbecue with Gulf Lite—the "one match" charcoal starter.

NORMAN A. PLATE

Easy supper *features caraway-seasoned jack cheese sauce with dippers of bread cubes, broccoli sprigs, salami, and jicama spears*

Foolproof fondue. Flavored with caraway, salami, onions, jalapeño

Seasoned jack or Cheddar cheese supplies the convenience in these fondue suppers. Besides adding distinctive flavor, these cheeses melt readily and stay creamy without separating, so there's less worry in making fondue successfully than when you use Swiss or Emmenthaler cheese.

You can find a selection of these cheeses in most supermarkets. Look for natural jack or processed Cheddar flavored with caraway seed, salami, onion, smoke flavoring, or jalapeño or other chili pepper. With the smoke or jalapeño flavor, you may prefer to use half unflavored cheese for a milder sauce.

Round out the menu with bread, meat, and vegetable dippers.

To keep the fondue warm during the meal, you can set the pot over a low heat source such as canned heat, a candle warmer, or an electric warming tray. However, this fondue will stay creamy enough to dip for about 1 hour without a heat source at the table.

Flavored Cheese Fondue Suppers

- ¼ cup all-purpose flour
- 1 pound flavored natural jack or processed Cheddar cheese, finely diced
- About 1¼ cups dry white wine or milk
- Fondue dippers (suggestions follow)

Sprinkle flour over cheese and stir to coat cheese with flour. In a fondue pot or saucepan, heat 1 cup of the wine until simmering but not boiling. Add the cheese mixture by small handfuls, stirring until cheese melts. If needed, warm more wine or milk and add to fondue to thin to desired consistency.

To serve, set fondue pot on a trivet or over a low heat source—if over direct heat, stir often to prevent scorching. Arrange fondue dippers on a platter or in separate bowls and set on the table for individuals to dip into the fondue. If you wish, supply individual forks for dunking. Makes 4 servings.

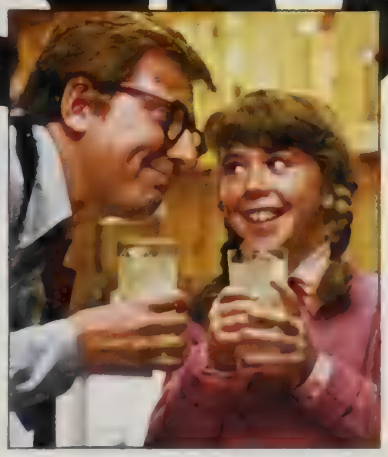
Fondue dippers

Bread. Cut 1 loaf unsliced rye or French bread into 1-inch cubes (if possible, leave a bit of crust on each cube for easier dipping). Or use 1 bag (8 to 10½ oz.) corn or tortilla chips.

Meats. Choose 1 or 2 from: 6 to 8 ounces boiled ham, roast beef, corned beef, or salami, cut into ½-inch-thick spears or ½-inch cubes.

Vegetables. Choose 2 or 3 from: 1 medium-size jicama or 2 medium-size turnips or zucchini, cut into ½-inch spears; 1 can (6 oz.) whole pitted ripe olives, drained; 1 to 2 cups whole cherry tomatoes: ¼ to ½ pound whole small mushrooms; or 1 head broccoli or cauliflower, cut into small flowerets (lightly steamed if desired). □

MAKE SURE.



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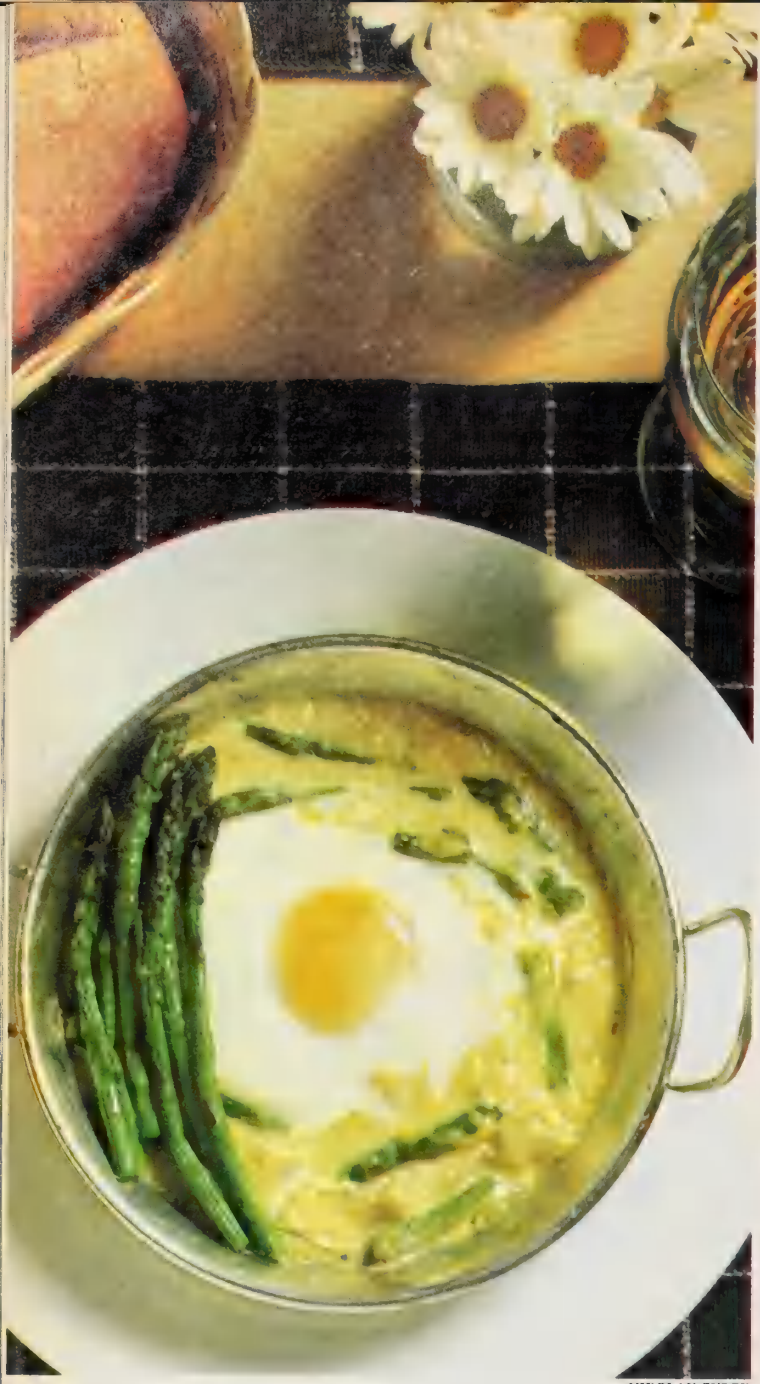

NIKOLAY ZUREK

Eggs go elegant, *baked in ramekins with creamy chicken and asparagus spears on the side*

Who wouldn't get excited *about this fun-to-eat, good-for-you breakfast? It's a granola-filled baked apple served with cheese wedges and graham-yogurt bread*

Asparagus and eggs, baked apple . . . new ways to start the day. From a new book

Routine or revolutionary, breakfast can be fun. You can choose traditional bacon and eggs, served side by side. But you might enjoy a lighter, freer approach, such as easy-to-eat breakfast sandwiches or a picnic brunch at the beach.

However you now start the day, a new *Sunset* book, *Ideas & Recipes for Breakfast & Brunch* (Lane Publishing Co., Menlo Park, Calif. 94025, 1980; $3.95), will help you find more possibilities for an interesting, nourishing breakfast.

Because so many people like eggs, any style, we include basic egg-cooking directions as well as innovative eggs-for-brunch ideas, such as these ramekins with eggs, asparagus, and chicken. Or

Fresh from California.

Bright La Salle Rosé and California Strawberries.

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Or, enjoy Frozen Strawberry La Salle for dessert. Just boil (for 3 minutes) 1 cup of sugar and 1/2 cup of water, stirring until dissolved. Add 1 pint of coarsely crushed California Strawberries, the juice and grated rind of a lemon, and 1 bottle of La Salle Rosé. Freeze in a quart container, or as ice cubes. And enjoy a bright dessert.

Then, there's the bright taste of a La Salle Rosé/Strawberry Cooler. A glass of La Salle Rosé, some California Strawberries, ice and a splash of soda.

Or brighten up strawberries and ice cream. Just pour bright La Salle Rosé over each serving.

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From The Christian Brothers of California®

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From breakfast *on the run to leisurely brunch—more than 200 recipes*

forget standard breakfast fare, and offer a surprise: granola-filled baked apples.

Eggs with Asparagus and Chicken

- 2 tablespoons *each* butter or margarine and all-purpose flour
- ¼ teaspoon salt
- ⅛ teaspoon *each* white pepper and ground nutmeg
- 1 teaspoon dry mustard
- 2 cups milk
- 1¼ cups (5 oz.) shredded Cheddar cheese
- 1 package (about 9 oz.) frozen asparagus pieces, cooked and drained
- 2 cups diced cooked chicken
- 4 eggs
- 4 teaspoons butter or margarine, melted and cooled
- 1 package (about 9 oz.) frozen asparagus spears, cooked and drained

Melt the 2 tablespoons butter in a 2-quart pan over medium heat. Stir in the flour, salt, pepper, nutmeg, and mustard; cook until bubbly. Gradually stir in milk and cook, stirring constantly, until thick. Stir in cheese until it is melted. Add asparagus pieces and chicken.

Spoon equal amounts of the chicken mixture into 4 buttered ramekins (1½- to 2-cup size). Make a hollow in the center of each and carefully break an egg into each hollow. Pour 1 teaspoon melted butter over each egg. Bake, uncovered, in a 375° oven for 15 to 20 minutes, or until eggs are set to your liking. Garnish with hot asparagus spears. Serves 4.

Honey Crunch Baked Apples

Core 6 large apples; peel if desired. Place in a 9-inch-square baking pan.

To make the filling, combine ⅓ cup *each* granola-type cereal and pitted chopped dates, ¼ cup chopped almonds or walnuts, ½ teaspoon ground cinnamon, ¼ teaspoon ground nutmeg, 2 teaspoons lemon juice, and 3 tablespoons honey. Spoon equal amounts of filling into center of each apple (pack filling in lightly).

Stir together 3 tablespoons *each* melted butter or margarine and honey, and ¾ cup apple juice or water; pour over apples. Cover and bake in a 350° oven for 30 minutes. Uncover and bake, basting often with pan juices, for 35 minutes longer or until tender when pierced. Serve warm or cooled. Serves 6. □

Sometimes the trouble with eating is cooking.

You have to eat.

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If you made it, it would mean hours of browning, chopping, simmering.

But since we make it, it takes you just 15 minutes. All you have to do is pop two cooking pouches—one with spaghetti, one with meat sauce—in boiling water. And enjoy.

Good food. And all the variety you could want. With Stouffer's, it's no trouble at all.

There's a lot to like about Stouffer's.

Stouffer's

DAVID BODY

England

Jellied eel snack tides over these London theatergoers. It's sold with other fresh fish at Pegg's Eel Stall at Cambridge Circus

Germany

Smoked and skinned eel is eaten corn-on-the-cob style in Bad Zwischenahn near Bremen

DISCOVERY IN NORTHERN EUROPE

Eel? Smoked or jellied. In sauce or just pick it up. Delicious

ALBERT VAN DEN BERG

Eat a fish that looks like a snake? Whether eel is served cold in gelatin, warm in a sauce, or smoked whole, most Americans wouldn't think of it. In Europe you'll find it's a delicacy.

When you travel to northern Europe, you can give this mild-tasting fish a try. We list some countries where eel is popular. Roadside stands are open in summer; fish kiosks or fish restaurants have eel most months. First-class restaurants may special order it if given sufficient notice. Prices range from $1 for a dish of jellied eel to $10 to $15 for a dinner entrée.

Denmark. Smoked or stewed eel is often on the smørrebrød menu.

The Netherlands

Stewed eel entrée is served with vegetables at Hotel Van den Hogen in Volendam

Germany, particularly northern Germany. Oily smoked eel served whole is typical of only a few restaurants. Try sections of smoked eel on bread or toast as an appetizer, or fresh in stew or soup.

The Netherlands. Sliced smoked eel is served on a bun at snack bars and on toast or bread in restaurants; it's also available stewed or fried with the chef's special sauce.

England. Jellied eel is sold at the races and in southern seashore resorts; restaurants serve it smoked or stewed.

Eel connoisseurs argue how eels are best: Smoked over oak logs or wood shavings? Prepared with or without bones? Caught in fresh or salt water? But all eels are *Anguilla anguilla;* they spawn in the Sargasso Sea in the North Atlantic, swim as tiny glass eels to Europe, and grow there in estuaries and rivers to 3 feet long and 2 inches around. □

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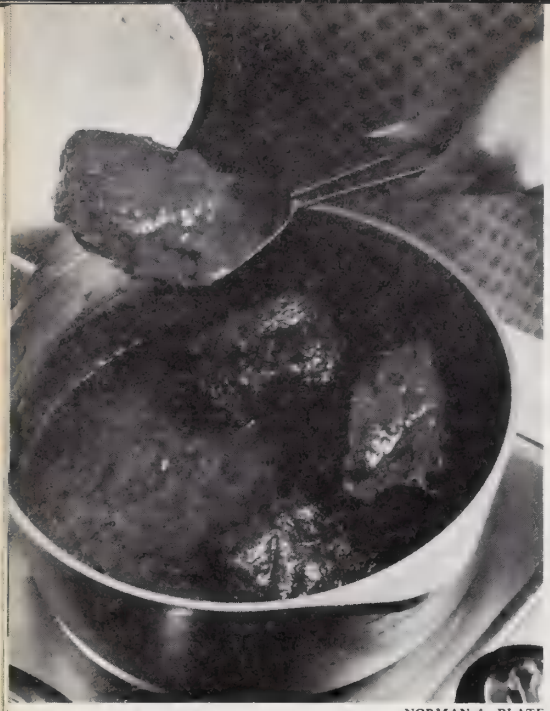

NORMAN A. PLATE

Eat the meat, save the sauce

Cooks from northern Italy often enrich tomato sauce by simmering a large cut of beef in it, then use the flavorful sauce for more than one meal.

For one entrée, serve the simmered beef, sliced, with some of the sauce. Layer remaining sauce with noodles and cheese for a creamy lasagna to serve another day. We made the lasagna with packaged noodles, but you can substitute fresh pasta.

Tender chunks *of beef simmered in tomato sauce are ready for serving. Save remaining sauce for lasagna*

Two-way Tomato Beef Sauce

- 2 whole cloves
- 1 small onion
- 3 pound boneless beef rump
- 2 tablespoons *each* olive oil or salad oil and butter or margarine
- ⅓ cup dry white wine
- 1 large can (12 oz.) tomato paste
- 7½ cups (5 tomato paste cansful) water
- 1½ teaspoons salt
- ¼ teaspoon *each* pepper and ground nutmeg
- 2 tablespoons dry basil
- ¼ cup coarsely chopped celery leaves

Stick the cloves in the onion. Cut the beef into 4 equal pieces. In a heavy 6-quart pan, brown meat and onion in the oil and butter over medium heat. Add the wine and cook until most of the liquid evaporates. Mix in the tomato paste, water, salt, pepper, nutmeg, basil, and celery leaves. Simmer, covered, until meat is tender, about 2½ hours. Remove meat and continue to cook sauce over medium heat, uncovered, stirring frequently, until reduced to about 4½ cups. Save 3 cups of the sauce for Lasagna with Cheese. Use remaining 1½ cups sauce and the beef for Simmered Beef in Tomato Sauce.

Simmered Beef in Tomato Sauce. Slice warm or cold beef across the grain and return to the reserved 1½ cups tomato sauce. Simmer, covered, adding a little water if needed, until hot. Serves 6 to 8.

Lasagna with Cheese. Cook 1 package (8 oz.) lasagna noodles in boiling salted water according to package directions. Drain, rinse, and drain again. Have ready 3 cups (12 oz.) shredded mozzarella cheese, 1⅓ cups grated Parmesan cheese, and the 3 cups reserved tomato sauce.

Also make this white sauce: In a small pan, melt ¼ cup butter or margarine over medium heat. Blend in ¼ cup all-purpose flour, ½ teaspoon salt, and ¼ teaspoon ground nutmeg. Cook, stirring, until bubbly. Remove from heat and gradually stir in 1½ cups milk. Continue cooking, stirring, until it boils.

To assemble, line a buttered 9- by 13-inch baking dish with ¼ of the noodles. Spread with ½ cup of the white sauce and ¾ cup of the tomato sauce. Sprinkle with ¾ cup of the mozzarella cheese and ⅓ cup of the Parmesan. Repeat layers. Cover and chill, if made ahead. Bake, uncovered, in a 300° oven for 1 hour (2 hours if chilled) or until hot. Serves 8.—*G. C., Carmel, Calif.* □

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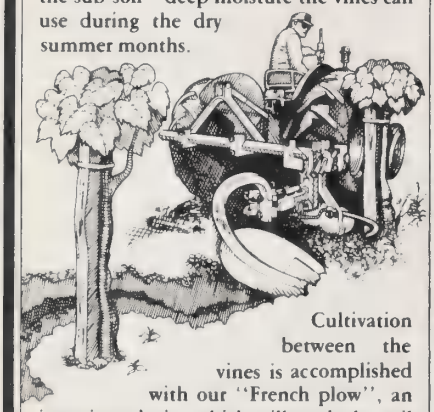
Cultivating the Vineyard

10

An important chore each spring is grooming the vineyard floor. We begin as soon as the upper soils dry out from the long winter rains, first by mowing the wild growth of grasses, mustard plant, morning glory and other weeds. If allowed to continue, this growth would rob the soil of nutrients and moisture needed by the vines. This natural, organic mulch is then turned under by discing between the rows. Discing continues until the surface soil is of a powdery consistency. This creates an "air barrier" that slows evaporation of moisture from the sub-soil - deep moisture the vines can use during the dry summer months.



Cultivation between the vines is accomplished with our "French plow", an ingenious device which will work the soil to within four inches of a vine's base without damaging it. A "striker bar" on the plow strikes each vine and automatically swings the blade to one side until the vine is passed. This plow is used only with mature vines, however. Our young vines are tended carefully, by hand, with a hoe.

Please write for our free monthly newsletter.

Sam J. Sebastiani

Sebastiani
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EST. 1825

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DARROW M. WATT

Thin layering *is the trick: glistening fruit purée spread over plastic wrap will oven-dry slowly to make a chewy leather*

Your own fruit leather . . . both chewy and tangy

You don't need batches of fresh fruit or sunny skies to make tangy fruit leathers. We started these with canned fruits and sauces, whirled them smooth in a blender, then dried the mixtures indoors.

Whether you use a conventional or convection oven (both use about the same amounts of time and energy), dry as many pans at one time as racks will hold.

Each of our fruit combinations makes two rolls of leather. You can double the recipes or create your own flavors using our proportions as a guide. Adjust seasonings or sweetening of purées as you like.

Fruit Leather Indoors

Line two 10- by 15-inch jelly-roll pans with plastic wrap; secure edges with tape or tuck excess under pan.

In the container of a food blender or processor, whirl fruit and seasoning until smooth. Using a rubber spatula, spread purée evenly over bottom of pan. Place pans in an oven set at 150° or Warm. (If drying more than one pan, allow about 4 inches drying space between oven racks.) Dry 6 to 8 hours or until leather is firm and dry to the touch.

Remove plastic and leather from pan and roll up together while still warm; twist plastic ends to seal. Wrap with additional plastic wrap. Store at room temperature up to one month or freeze for up to one year.—*B. F., Portland.*

Spiced Apple. Combine 1 can (about 30 oz.) applesauce, 3 to 4 tablespoons honey, 1½ teaspoons ground cinnamon.

Apple and Pear. Mix 1 can (about 16 oz.) pears, drained; 1 can (about 16 oz.) applesauce; and 1 teaspoon ground cinnamon.

Banana and Peach. Combine 1 medium-size banana and 1 can (about 18 oz.) peach halves, drained.

Cranberry - Raspberry. Combine 1 can (16 oz.) whole berry cranberry sauce and 4 tablespoons raspberry jelly, *or* use 1 can (16 oz.) jellied cranberry - raspberry sauce. Add 2 tablespoons honey.

Fruit Cocktail. Whirl 1 can (about 30 oz.) fruit cocktail, drained, with 1 large banana and 2 tablespoons honey. □

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ITALIAN RICE SALAD

- ¾ cup Wish-Bone® Italian Dressing
- ⅔ cup mayonnaise
- 1-½ cups chopped or shredded fresh vegetables—any combination carrots, celery, green onion, green and red peppers, tomato or radishes
- 2 Boil-in-Bags Success® Rice, cooked according to package directions

In large bowl, blend Italian dressing with mayonnaise; stir in vegetables. Add rice and toss well; pack into 5-½ cup ring mold or bowl; chill. Makes about 8 servings.

Chefs of the West®

The Art of Cooking . . . by men . . . for men

Gone but not forgotten . . . the spaghetti that was Lupo's

Times and places change, and there comes a period in everyone's life when the mental atlas is mostly out-of-date. No amount of turning left and walking two blocks will take one to the addresses that are still so fresh in the memory. The familiar doorway is gone, the building with it, the people once there are elsewhere. One begins to ask, "Do you remember . . . ", and with increasing frequency, the reply is "No."

Chef Tom Matthews has a set of these coordinates of the mind, and they point to a doorway not far from Broadway in San Francisco, to a descending stair where the smell of woodsmoke becomes stronger as one goes down. To the left an aged Neapolitan lady sits brooding at a small table beside a fat, jolly, balding man. The man is Lupo and the place is Lupo's pizzeria, with a brick oven at one end, faded murals of the Bay of Naples behind the encircling booths, a private collection of old photographs over there, and the best cannoli ever anywhere.

Here is *Chef* Matthews walking that way once again. Note the key words at the beginning and end of his thought: "I recall many a rainy night in San Francisco when I stopped by Lupo's for a platter of spaghetti and a glass of wine, and such recollections are fond indeed."

Chef Matthews wishes us to share a dish of spaghetti *in memoriam.*

Matthew's Spaghetti Lupo

- 2 pounds mild Italian sausage, skinned and cut in 1-inch pieces
- 2 cups water
- 1 medium-size green pepper, seeded and diced
- 1 medium-size onion, diced
- 1 large clove garlic, minced or pressed
- 1½ teaspoons *each* oregano leaves and dry basil
- 1 teaspoon salt
- ¼ teaspoon pepper
- 3 cans (8 oz. *each*) tomato sauce
- 1 can (6 oz.) tomato paste
- 1 pound spaghetti
- Grated Romano or Parmesan cheese

Place the sausage in a 5-quart kettle with ½ cup of the water; cover and simmer for 15 minutes. Drain water and cook sausages over medium heat until browned on all sides; lift out with a slotted spoon and set aside.

Add green pepper, onion, and garlic to the drippings and cook until onion is limp. Add the remaining 1½ cups water, oregano, basil, salt, pepper, tomato sauce, tomato paste, and sausage. Simmer, uncovered, for about 1 hour or until sauce is reduced to desired consistency; stir occasionally. (If made ahead, cool, cover, and refrigerate as long as 2 days. Then reheat before serving.)

Cook spaghetti according to package directions; drain well. Place spaghetti in a large 3- to 4-quart shallow serving dish, pour hot sauce on top, and pass cheese at the table. Makes about 8 servings.

San Jose, Calif.

Pepper is the berry of a tropical vine, and of all the spices, it is the most appreciated. Salt and pepper are to a recipe as *amen* is to a prayer. And although we may admire cloves, cinnamon, or nutmeg, we do not normally set shakers of these things on the table at meals.

John Miscovich likes pepper as much as any of us; in fact, he uses it as a primary flavoring of a rich and interesting beef

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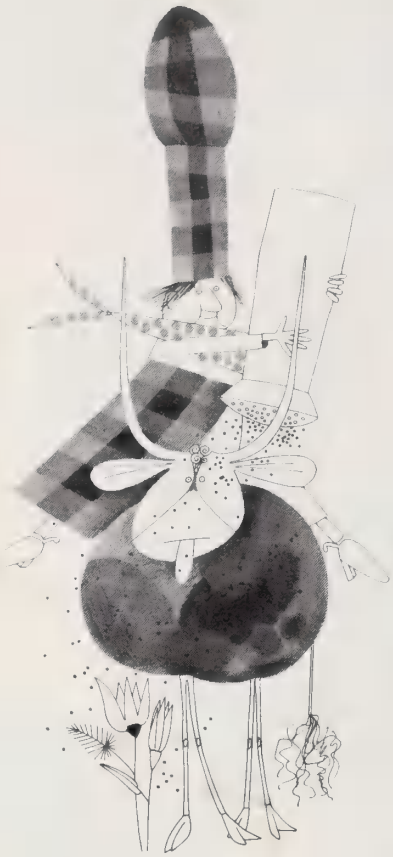

"Pepper flavors a rich beef stew"

stew. A caution: Be sure the beef is fork-tender before you put in the broccoli and cauliflower to cook. They easily become mush if left too long.

Pepper Stew

- 2 tablespoons salad oil
- 1¾ to 2 pounds beef brisket, cut in 1-inch cubes
- 4 medium-size onions, quartered
- 6 to 8 cloves garlic, minced or pressed
- ½ teaspoon *each* thyme and marjoram leaves
- ½ teaspoon coarse ground pepper
- 3 cups regular-strength beef broth
- 1 small bunch (about 1 lb.) broccoli
- 1 small head (about 1 lb.) cauliflower
- 2½ tablespoons cornstarch blended with 2½ tablespoons water
- Salt
- Hot cooked rice

Heat oil in a 5-quart kettle over medium-high heat; add beef and cook until browned on all sides. Add the onion, garlic, thyme, marjoram, pepper, and broth. Cover and simmer for 2 hours or until meat is tender when pierced.

Peel broccoli stems and cut into 1-inch chunks; slice through tops to make 1-inch pieces. Separate cauliflower into small flowerets. Add broccoli and cauliflower to beef, cover, and cook until vegetables are just tender when pierced, about 15 minutes. Stir cornstarch mixture into beef mixture and cook until thickened. Season to taste with salt. Serve with hot cooked rice. Makes 6 to 8 servings.

John M. Wisserniel
San Leandro, Calif.

Roy Yee cooks chicken in beer, reducing it to a drunken state. Other flavors emanating from the intoxicated bird are ginger and cilantro. You may want to play with the quantities of the latter. It tends to take over if not treated in an authoritative manner.

Drunken Chicken

- 2 tablespoons salad oil
- 2 broiler-fryer chickens (3 to 3½ lbs. *each*), quartered
- 1 clove garlic, minced or pressed
- ⅓ cup soy sauce
- 1¼ teaspoons finely chopped fresh ginger
- 2 green onions, cut in 1-inch lengths
- 1 can (12 oz.) beer
- 1 tablespoon chopped fresh coriander (cilantro)
- 3 tablespoons cornstarch blended with 3 tablespoons water
- Salt and pepper
- Hot cooked rice

Heat oil in a 5-quart kettle over medium heat; add chicken pieces, a few at a time, and cook until browned on all sides. Discard excess fat. Return all chicken to kettle. Add garlic, soy, ginger, onion, beer, and coriander; bring to a boil, then

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cover and bake in a 350° oven for 1 hour, or until thigh meat near bone is no longer pink when slashed.

Remove chicken to a rimmed serving platter and keep warm. Skim fat from pan drippings; stir in cornstarch mixture and cook, stirring, until thickened. Season to taste with salt and pepper. Spoon some of the sauce over chicken and pass remaining sauce at the table. Serve with hot cooked rice. Makes 8 servings.

Ray Gee
San Francisco

Thomas Henken is a self-confessed cooky freak, and to him the chocolate chip is the maharaja (or maharani) of all cookies. But he finds that the tailor-made ones he can buy are often lacking in richness, distinction, and size.

And so *Chef* Henken has perfected what he calls (with becoming immodesty) "the best chocolate chip cookies in the universe." Most of our judges agreed with his estimate of their worth; a few felt that he should confine his claim to our solar system. Note carefully the quantity of chocolate pieces and walnuts, and don't economize. Bear in mind William Blake's dictum: "The road to excess leads to the palace of wisdom."

Chocolate Chip Cookies at Their Best

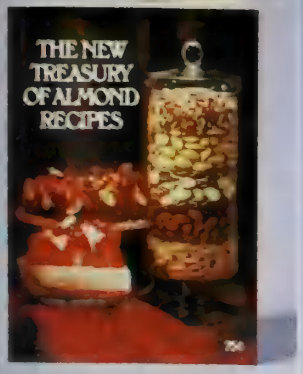
- 1 cup solid shortening
- ½ cup (¼ lb.) butter or margarine
- 1⅓ cups granulated sugar
- 1 cup packed brown sugar
- 4 eggs
- 1 tablespoon vanilla
- 1 teaspoon lemon juice
- 2 teaspoons soda
- 1½ teaspoons salt
- 1 teaspoon ground cinnamon
- ½ cup rolled oats
- 3 cups all-purpose flour
- 2 large packages (12 oz. *each*) semisweet chocolate baking pieces
- 2 cups chopped walnuts

In a large mixer bowl, beat together on high speed the solid shortening, butter, granulated sugar, and brown sugar until thoroughly combined, about 5 minutes. Then beat in the eggs, one at a time, beating well after each addition. Beat in the vanilla and lemon juice.

In a bowl, stir together the soda, salt, cinnamon, oats, and flour. Beat dry ingredients into the creamed mixture until well combined; mix in chocolate pieces and nuts.

For each cooky, drop a scant ¼ cup dough on lightly greased baking sheets; make cookies about 3 inches apart. Bake in a 350° oven for 16 to 18 minutes or until golden brown. Transfer to wire racks to cool. Makes about 3 dozen cookies. ▫

Thomas E. Henken
El Monte, Calif.



/e do it with strawberries—
ut almost any fresh fruit is
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'icture the same recipe with
ectarines, peaches or blue-
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ALMOND STRAWBERRY ZABAGLIONE

2⅔ cups sliced strawberries
½ cup Blue Diamond® Sliced Natural Almonds, toasted
6 egg yolks
⅔ cup granulated sugar
½ cup Marsala
4 whole strawberries

Place 1/3 cup sliced strawberries in bottom of each serving dish. Sprinkle 1 tablespoon of the almonds over berries in each dish. Whip egg yolks with sugar in top of double boiler. Add Marsala, stirring constantly. Set double boiler over cold water and cook mixture, over medium heat, stirring constantly, until sauce is thick and creamy. Spoon sauce over fruit and almonds. Arrange 1/3 cup strawberry slices over sauce in each dish. Sprinkle each with remaining almonds. Garnish with whole berries. Makes 4 servings.

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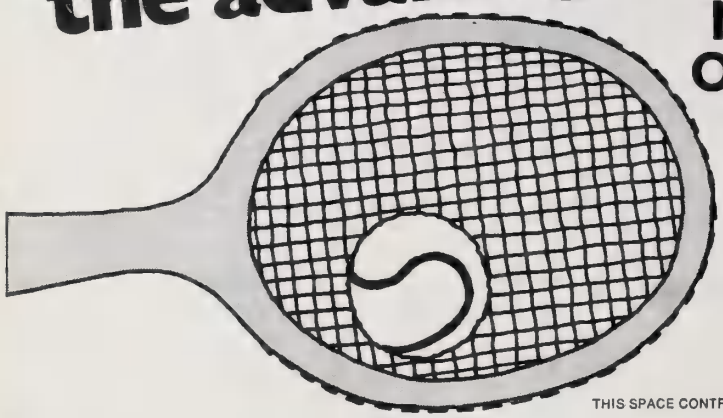

MARCH OF DIMES

THIS SPACE CONTRIBUTED BY THE PUBLISHER

Spaghetti ahoy! Oh, buoy!

Our Marinara Sauce was created by Italian mariners. Perfect with Golden Grain's finest quality spaghetti, made with high protein Durum wheat—naturally golden fresh. Serve the recipe below with a green salad and stand back—you could get run down in the rush to the galley.

Mama DeDomenico's Crab Cioppino Spaghetti

- 1½ cups chopped onion
- 1 cup chopped green pepper
- 2 cloves garlic, minced
- 2 Tbsp. olive oil
- 2 cans (15 oz. each) GOLDEN GRAIN Marinara Sauce
- ¼ cup Burgundy wine
- ½ tsp. salt
- ¼ tsp. pepper
- 1 lb. cooked crabmeat
- 1 lb. GOLDEN GRAIN Spaghetti

Saute onion, green pepper, garlic in oil. Add Marinara Sauce, wine, salt, pepper; simmer 10 minutes. Add crab and heat through. Prepare Spaghetti according to package directions. Serve sauce over Spaghetti. Makes 6 (2 cup) servings.

Get Mama DeDomenico's recipes free. Send self-addressed, stamped business size envelope to Golden Grain, P.O. Box 24024, Oakland, CA 94623.

Ground beef soups ... barley or corn

Not all soups require hours of simmering to develop richly flavored broths. These two start with ground beef and can be ready to serve in about 45 minutes. Add bread or rolls and salad for a satisfying lunch or supper.

Barley Beef Vegetable Soup

- 1 pound lean ground beef
- 1 large onion, chopped
- 2 cloves garlic, minced or pressed
- 3 carrots, sliced ¼ inch thick
- 3 stalks celery, sliced ½ inch thick
- ¼ teaspoon *each* dry basil and oregano leaves
- ½ cup pearl barley, rinsed and drained
- 6 cups regular-strength beef broth (or 7 beef bouillon cubes dissolved in 6 cups water)
- 1 medium-size zucchini, sliced
- Salt and pepper to taste
- Chopped parsley

In a 5-quart pan, cook the beef, onion, and garlic over medium-high heat until meat loses its pink color and onion is limp. Drain off and discard excess fat. Add the carrots, celery, basil, oregano, barley, and broth.

Bring to boiling, then reduce heat, cover, and simmer gently for about 45 minutes, or until barley is tender. Add the zucchini and simmer just until tender, about 5 minutes longer.

Season to taste with salt and pepper. Garnish servings with parsley. Makes about 4 servings.

Chili Corn Beef Soup

- 1 pound lean ground beef
- 1 large onion, chopped
- ½ pound mushrooms, sliced
- 1 tablespoon chili powder
- ½ teaspoon *each* oregano leaves and ground cumin
- ¼ teaspoon garlic powder
- 2 cans (15 oz. *each*) kidney beans, drained
- 1 can (15 oz.) tomato purée
- 3 cups water
- 3 beef bouillon cubes, crushed
- 1 can (12 oz.) Mexican-style corn, drained
- Salt and pepper to taste
- ½ cup shredded Cheddar cheese

In a 5-quart pan, cook the beef, onion, and mushrooms over medium-high heat until meat loses its pink color and vegetables are limp; drain off fat. Stir in the chili powder, oregano, cumin, garlic, beans, and tomato purée. Then add the water and bouillon cubes. Cover and simmer gently for 20 minutes.

Stir in the corn and simmer another 10 minutes. Season to taste with salt and pepper. Pass the shredded cheese at the table. Makes about 4 servings.—*R. R., Hood River, Ore.* □

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MAY IN YOUR GARDEN:

After the late winter drenching, May gardens should be busting out all over

Winter brought drenching rains to northern California this year. You could be seeing the results this month. Aided by that moisture and by fairly mild temperatures, fall- and winter-planted plants (such as bare-root trees) should be putting on plenty of new growth. And lawns will be springing up so fast you can almost clock them.

Along the coast, summer fogs are starting to roll in, and inland temperatures are rising. Those are your cues to get all your summer plants into the ground. It's prime time for planting tomatoes; read all about the best kinds and how to grow them on page 94.

Mother's Day is May 11. What better gift than a promise of help for an afternoon or a day in the garden?

Automatic drip irrigation system . . . here's how it works

All the plants in the color photograph at left are watered automatically by a drip irrigation system that was installed by owner Brooke Sawyer. The system consists of four main lines of plastic pipe: along the ground to the left of the walkway; along the ground to the right of the walkway, covered by baby's tears; behind the pots along the top of the wall; and along the beam.

Small lateral lines carry water from the main arteries to each pot. The system is run by an adjustable time clock, available at irrigation supply stores and some hardware stores. During the warm summer months, it turns on the water once a day for 10 minutes; during cooler months, the water comes on once every two or three days.

Saucers are necessary under the pots along the wall to prevent overflow from staining the white surface. To keep the pots from standing in any excess water, Mr. Sawyer put small drains in each saucer by drilling a hole slightly smaller than the plastic drainage tube and forcing the tube into place.

Once a month, Mr. Sawyer turns off his automatic watering system and gives each plant a dose of liquid fertilizer. The monthly feeding and occasional removal of faded blooms are the only care the plants in the picture get.

WILLIAM APLIN

tic tubes *carry water from main line to each pot. Saucer drains prevent ts from becoming waterlogged, direct excess water to ground below wall*

lor medley . . . nine different bloomers

a typical overcast May morning on the California coast, iant flowers light up the entrance to the beachfront home Mr. and Mrs. Brooke E. Sawyer, Jr. The plants—agapanthus, y's tears, cymbidiums, fuchsias, geraniums, lobelia, marguerites, sprenger aragus, and violas—are all watered by an automatic drip irrigation em (explained above). A time clock controls how long the water each day, and can be adjusted as plants' needs vary according eason. Plant the annuals shown here now for color through fall.

Sunset's GARDEN GUIDE

Workshops and tours at the Farallones Institute Rural Center

"The Edible Landscape" is the name of a workshop now being offered at the Farallones Institute Rural Center in Occidental, California. The course concentrates on fruits, vegetables, and herbs and how to build them into a self-sustaining balanced landscape. The five-week residential program starts May 19 and continues through June 20. For further information, call (707) 874-3060.

For a shorter course, inquire about a five-day class—Food and Nutrition in the Garden—scheduled for August 25 to 29. Participants harvest food from the center's gardens and learn ways to cook and preserve it. For registration information, send a self-addressed envelope with 28 cents postage to The Farallones Institute Rural Center, 15290 Coleman Valley Rd., Occidental, Calif. 95465.

If you'd like to drop by and look around,

Sunset's GARDEN GUIDE

DARROW M. WATT

Lacy leatherleaf fern *mingles with camellia and redwoods in Klaus and Gisela Hertzer's San Jose garden. She's clipping its glossy green leaves for indoor bouquets*

the center is open to the public every Saturday from 1 to 5 P.M. Tours are given hourly. You can make special arrangements for schools and large groups.

Grow leatherleaf fern for cut-flower arrangements

While you're planting flowers for summer bouquets, why not plant some leatherleaf ferns to go with them?

This is the popular fern of florists' arrangements. You'd pay 15 cents a stem for it in a shop, and for the price of a bunch you can easily grow your own. The shiny, dark green leaves last a long time in bouquets.

Leatherleaf fern (*Rumohra adiantiformis*, often sold as *Aspidium capense*) thrives in coastal gardens and in mild-winter areas as far inland as Sacramento. Along the coast you can plant it in full sun, but foliage will stay greener and lusher in partial shade. These ferns also grow well in containers.

Beans on the heels of peas

When space is limited, it's hard to wait for cool weather crops to finish up before you plant their warm-weather successors. One gardener solves the problem by planting her pole beans about the time the sweet peas reach the top of their trellis.

While she's picking sweet pea blossoms, the beans are sprouting. By the time the peas need to be pulled up, the beans are ready to climb the same wire trellis.

U.C. scientists take a look at soap spray controls

A recent study by University of California Extension Service entomologists confirms the effectiveness of soap sprays fo controlling certain kinds of insects an mites on ornamental plants.

Their tests used a variety of soaps an detergents (liquid, granular, flakes, an solid bars) on several kinds of sucking creatures found on ornamental plants—including acacia, pittosporum, and Mexican orange—common in the Bay Area The results were compared to those o conventional insecticides on the same plants. Here are some of the study's conclusions.

The soapy sprays effectively reduced aphid, psyllid, mite, and thrips popula-

NORMAN A. PLATE

Sharing the trellis. *Pole beans at center of this raised bed will be ready to take over when sweet peas finish*

MAY CHECK LIST: *Here is what most needs doing*

☐ **Build compost.** The raw materials—grass clippings, weeds, prunings—stack up quickly this month. Add coffee grounds, egg shells, and vegetable refuse from the kitchen. Water the stacked material enough to keep them evenly moist.

☐ **Control plant damagers.** Aphids can be a real bother now. Watch for them on new shoots and leaves of camellias, citrus, roses, and fruit trees. Soap sprays or a simple blast of water can keep numbers in check. (See item above.)

Hand pick or bait for snails, slugs, and earwigs. A good earwig trap: rolled up newspaper left out overnight. In the morning, pick up and destroy the paper, or knock out earwigs and stomp them.

☐ **Cut and feed roses.** In most parts of northern California, roses reach their height of bloom in May. To keep flowers coming, cut plenty of long-stemmed blossoms (cut to a five-part leaf) and remove all spent flowers. When flower production lags, stimulate another period of bloom in six weeks by removing all stragglers and giving bushes a dose of fertilizer.

☐ **Fertilize summer flowers.** For top flower display this summer, put annuals and perennials on a regular four- to six-week feeding schedule. Porous soil, more frequent watering, and limited roots make plants in containers and hanging baskets more demanding. They do best with half-strength feedings every two weeks or diluted feedings added to every watering.

☐ **Groom and prune.** After this season's bloom, prune rhododendrons and azaleas that are leggy or shapeless: they'll put on most of this year's growth in the next few months. Snap off spent flower trusses. Tip pinch fuchsias, geraniums, and marguerites to encourage new side shoots. Prune, shape, or thin hedges, evergreen shrubs, and trees. Tie up vines and stake tall-growing flowers such as delphin-

ions—not 100 percent but enough for most home garden needs. Repeated applications were usually necessary.

Soaps and detergents were equally effective. Liquid detergent was the easiest to mix up, apply, and store. (Dry kinds were harder to mix and tended to clog spray nozzles or leave residues.) A solution of 2½ to 5 tablespoons liquid detergent to a gallon of water works well and can be easily applied with ordinary home equipment—hand-pump compression sprayers, hose-end sprayers, or simple plant misters.

Soap and detergent sprays, especially in higher concentrations, can injure certain kinds of leaves. Plants that have succulent or fuzzy leaves are usually the most susceptible.

You can test a solution by spraying an inconspicuous part of the plant first. If you see leaf burn after four or five days (not sun speeds it), you may need to dilute with more water or try another kind of soap or detergent. Or rinse leaves off a few hours after spraying (however, you may lose some effectiveness).

Treating the big three—mildew, rust, and black spot—on roses

If you are bothered by mildew, rust, and black spot on your roses, there are several things you can do.

Basic good-gardening practices help. Start with *sanitation*—a thorough cleanup of leaves and debris around the base of rose bushes (fungus spores may have overwintered there); *effective pruning*—opening up the centers of bushes so air can circulate; and *proper placement*—planting roses out of damp, shady areas, and keeping them uncrowded by other plants or walls. There are also rust and mildew-resistant rose varieties you can plant. Your nurseryman can advise you on the right ones for your area.

If you still see these infections on the leaves of your plants, early treatment with the right fungicides may be the solution. Look for mildew (a grayish, powdery coating) now on new leaves and buds. Rust (orange spots on leaf undersides) tends to come later, most commonly along the foggy coast. Black spot generally appears as dark ¼- to ½-inch-wide spots on mature foliage in late spring and summer.

A new fungicide available this spring controls all three of these problems. It's labeled Funginex, and its active ingredient is triforine, a fungicide with local systemic properties (it penetrates the leaf tissue). It comes as a liquid which you mix with water and apply with a hose-end or portable sprayer. The solution doesn't leave a visible deposit like some other treatments. You can also combine the fungicide (following label directions) with malathion, orthene, or other insecticides as needed.

Hello warm sun, goodbye annual bluegrass

If you happen to have a lawn of all or mostly annual bluegrass (*Poa annua*), be prepared: it's possibly going to change from green to brown this month or in June. If spring came to your area early and hot, it may have browned in April.

Annual bluegrass seeds sprout after the first fall rains. In winter and early spring, it looks like regular lawn grass. What gives it away as annual bluegrass are the distinctive white speckled clusters of seed heads. They grow so close to the ground that a lawn mower goes right over them.

If you aren't aware that your lawn is all or mostly annual bluegrass, the month of May can come as lawn disaster time. The sun moves north and begins to beat down on previously shaded soil. On the first really hot day, big areas of *Poa annua* can die and change into straw almost instantly.

To repair the scorched area, rough up the surface with a rake or renovator. Fertilize and sow lawn seed. Keep the seedbed moist to sprout the grass. Repeat fertilizing every six to eight weeks. Also, put a reminder on your calendar to apply a weed-control product containing betasan or dacthal in mid-August to prevent *Poa annua* seeds from sprouting when rains return in the fall. □

DARROW M. WATT

Annual bluegrass, *a lawn weed, can be recognized by its low-slung seed heads. Hot days of May or June turn the grass to straw*

ums, lilies, and stock. Clip off faded ris but don't disturb foliage yet.

☐ **Plant hanging baskets.** In addition to annuals, shop for more permanent plants to display in baskets. Nurseries carry a good selection of fuchsias, geraniums, tuberous begonias (seedlings or started tubers), and verbena this month.

☐ **Plant new lawns.** This is a good time to start dichondra from seed, sod, or flats) and to plant subtropical grasses such as hybrid Bermuda from sprigs, stolons, or sod. Rains won't help you now, so stay vigilant with the hose until they're well established. Mow existing lawns frequently—at least once a week—with a sharp mower.

☐ **Plant strawberries.** If you missed their bare-root season, you can still plant strawberries now. Young plants in sixpacks or 4-inch pots are generally available through the end of May.

☐ **Plant summer bedding plants.** Your choices include all the hot weather annuals: amaranthus, aster, celosia, cosmos, dwarf dahlias, fibrous begonias, marigolds, petunias, portulaca, sunflowers, vinca rosea, and zinnias.

When transplanting, pinch off tips and flower buds. This gets plants to fill out before they flower. Water well after planting, apply a light mulch, and shade young plants from hot sun for the first week or two.

☐ **Plant vegetables.** Sow seeds of beans, corn, cucumbers, melons, squash, pumpkin, and watermelons. Sow successive crops of beets, bush beans, corn, chard, carrots, and radishes. Include loose-leaf lettuce in fog-belt areas; try slow-to-bolt kinds inland. Set out eggplant, pepper, and tomato seedlings. (See page 94 for more about tomatoes.)

☐ **Propagate.** You can take 2- to 6-inch-long cuttings from new growth of carnations, chrysanthemums, dianthus, fuchsias, geraniums, ivy, lavender, pelargoniums, marguerites, and roses this month.

☐ **Water and mulch.** Build watering basins around newly planted shrubs and trees. Mulch or renew mulch around roses, young bedding plants, and vegetables. (Keep a ring cleared at base of plant.) Keep an eye on containers—they'll need frequent watering as weather gets hotter.

Glossy purple *Japanese eggplant below is just the right size for harvest. You can dry surplus; shriveled halves at right swell up again in dish of water*

DARROW M. WATT

NORMAN A. PLATE

Japanese eggplant . . . slimmer, faster, easier to dry

Most gardeners would concede that the eggplant is the handsomest of vegetables, both in fruit and as a plant. If it has a serious flaw, it is that the fruits of standard varieties are too large for the plant and often too large for the small family.

The so-called Japanese eggplants overcome this objection. Long favored by the Japanese, especially for tempura and pickles, these small, slender varieties are beginning to reach Western nurseries in large quantities. The largest bedding-plant grower in California estimates that 25 to 35 percent of his eggplants are Japanese varieties.

There are two principal advantages in growing them. First, they give you a quicker crop of more manageable size. Second, even though you may find that a dozen plants will overwhelm you with eggplant toward the end of summer, you can very easily dry your surplus for storage and later use.

Plants should be available by mid-May in all climates where eggplant can be grown. They have been for sale in Southern California and the desert for some time but can still be planted this month.

Tropical in origin, they thrive on heat. Set them out in your best garden soil in full sun, or plant in large containers on a sunny deck or terrace. Allow each plant 3 feet in the row or a container at least 10 inches in diameter. Feed every six weeks with complete fertilizer, dry or liquid, and keep plants well watered but not soggy.

With large, standard-size eggplant, it's a good idea to thin fruits so that each plant bears only one fruit to each main branch—perhaps three to six per plant. With the slender Japanese varieties, such thinning is not necessary or desirable. Each plant will, under favorable conditions, carry three to six ripe fruit at a time and will bear right up to frost—yielding perhaps two dozen to a plant.

When to harvest

The best indicator of readiness is color and gloss: fruit should be a deep, rich purple and have a high shine. Fruit that stays on the plant too long may grow a bit larger, but it will lose its gloss and color, along with much of its tenderness and crispness.

If you have too much eggplant to use at once, dry them the way the Japanese do. Slit the fruit from blossom end to calyx, or stem end, but do not cut through calyx (the hooded covering at top of eggplant) or stem. Slip fruits over a line in an airy spot outdoors—either in shade or sun—and let them hang until dry. Or slit lengthwise into halves and dry in a commercial dehydrator or in a warm oven with the door open. When leather-dry, store in plastic bags in a dry place.

Reconstitute by soaking in water for 3 or 4 hours. At this time remove the calyx from each eggplant. Use the dried eggplant for casseroles, ratatouille, or similar dishes.

Many varieties are obtainable in seed packets, but nurserymen usually sell plants merely as Japanese or Japanese long eggplant. □

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Seven-inch leaves *have dark green markings on lighter green surface*

Maroon and green 'Burle Marx'

Leaf markings look like dark green bru strokes left and right on *Ctenant* 'Burle Marx' (also sold as *Calath* 'Burle Marx' and *Stromanthe amabi* 'Purple Tiger'). As well as good lookin this foliage plant is undemanding ar easy to care for.

One of the prayer plants, 'Burle Mar has green leaves that spread out over th edge of their pot during the day. At nig the leaves rise and fold together, revea ing maroon undersides.

You can buy 'Burle Marx' from Wei ners' Begonia Gardens, Piraeus and No mandy streets, Leucadia, Calif. 9202 The nursery is open for retail sales fro April through September, 10 to 5 daily Your nurseryman can order plants fro Weidners' for you any time of year.

'Burle Marx' makes a good house plar in winter and can be put outdoors i summer. It grows best in bright indirec light, but it can take moderately dir conditions for several months at a tim without showing ill effects. Caution: kee it out of direct sunlight, since leaves bur easily, and protect it from cold by locat ing the plant where night temperature are above 55°.

All prayer plants need loamy soil wit leafmold and sand added; 'Burle Marx is no exception. Water plants well, the let them drain to avoid salt buildup i the pot. Between watering, allow the soi in the pot to dry almost completely.

The easiest way to propagate 'Burle Marx' is by dividing the crowns of the plant. Remove the plant from its po and ease the separate crowns apart; use sharp shears to cut through the roots if necessary. To prevent the roots from drying out, replant each crown in its own pot as soon as possible. □

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Not a sluice box, it's Milton Stapp's soil sifter ... built with scrap lumber

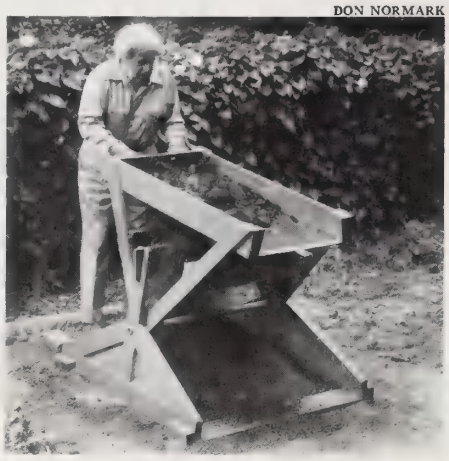
Like a prospector working a sluice box, Milton Stapp of Seattle uses his home-made sifter to filter rocks and roots out of garden soil easily.

He shovels unsifted soil atop ⅓-inch-square wire mesh, then rocks the box back and forth. Fine soil falls through the mesh; debris is swept off the screen out the open end of the box.

Four old bedsprings (two on each side) push the rocking box back to center. It pivots on an axle of pipe, held in place by a set-screw on each end.

Mr. Stapp chose his sifter's dimensions arbitrarily, since he built it with scrap lumber on hand (mostly 1 by 3's, 1 by 4's, 1 by 5's, and ½-inch plywood). For added stability, the 40-inch-high sifter has sides that cant inward from a 40-inch-wide base to a 20-inch-wide top. Base boards and box sides were cut at a complementary angle.

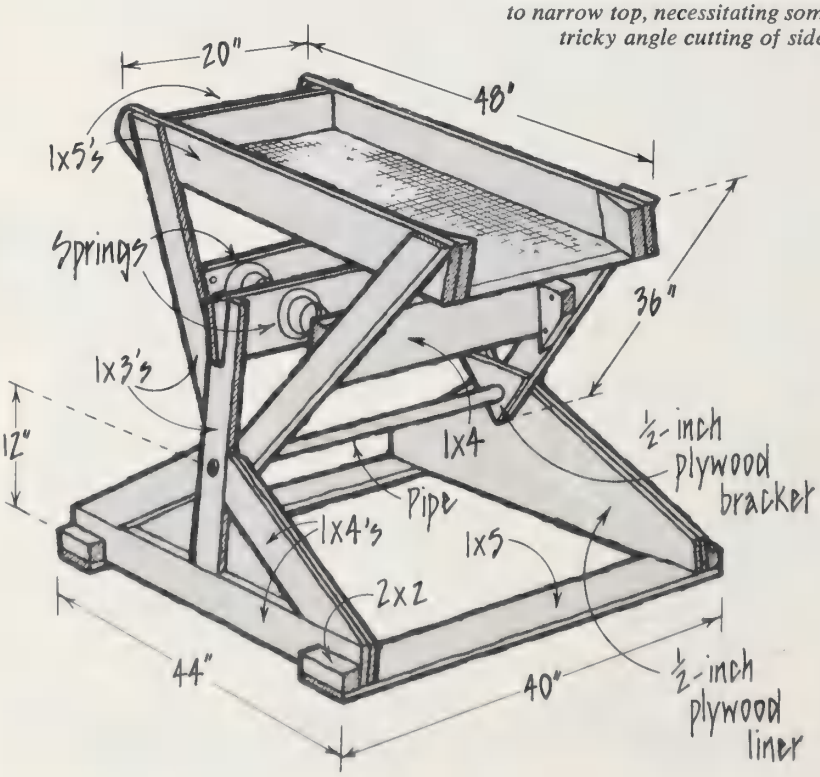
DON NORMARK



Eureka! *Mr. Stapp's sluice-box sifter may not net any gold nuggets, but its mesh quickly strains debris from soil*

Wood sections are joined with carriage bolts, and weatherproofed with exterior latex paint. □

Sides cant inward *from a wide base to narrow top, necessitating some tricky angle cutting of sides*



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Above is our most popular Windsor Oak finish. You can have a slightly lighter finish, called Standard Oak, or Old Brown Oak, a little darker than Windsor. The same floor also comes with a deeply textured surface in two rich tones.

You'll also find that Hartco Solid Oak Parquet is the easiest floor to keep looking nice that you've ever owned. Forget all the old grandma tales about hands-and-knees waxing. You'll never spend the time or money on Hartco that you did shampooing and spot-cleaning carpets. You can even have Hartco with a foam backing for added comfort to your feet. And you can get it at most better floor covering dealers.

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ORTHO® Malathion Insect Spray* is a remarkable multi-purpose insecticide for home use. It controls a wide variety of the insects that attack fruits and vegetables to give you a more appealing harvest. It helps you grow a crop you can take real pride in, not just at your own dining room table, but for those you share with your neighbors.

Apply ORTHO Malathion with the ORTHO SPRAY-ETTE 4. It has a patented internal metering jet to assure mixing accuracy under varying water pressure. It's designed to attach to an ordinary garden hose.

*ORTHO Malathion is made from CYTHION Insecticide "The Premium Grade Malathion." Talk to your ORTHO dealer.

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ORTHO

Chevron Chemical Company

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Our concern for gardens is always growing.

WILLIAM APL

Bright orange *1½-inch blooms stand out above dark green 2- to 5-inch leaves*

Indoor bloomer from India

House plant fanciers looking for some thing unusual should get acquainted wit *Crossandra infundibuliformis.* This na tive of India features cheerful scarle orange or coral orange flowers over long period.

Crossandra will grow 1 to 1½ feet i diameter in a 4- or 5-inch pot. Glossy very dark green, gardenia-like leaves ar attractive all year and make a strikin contrast with the flowers.

Crossandras need plenty of bright ligh in order to bloom. The flowering seaso extends from late spring to fall, bu under optimum conditions, plants ofte bloom on and off all year.

Where African violets do well—in 60 to 70° temperatures and high humidit —these plants thrive. They can tak more heat and are easier to grow than African violets.

Water crossandras when soil is dry ½ inch below the surface. To keep them i prime condition, feed with liquid fertil izer once a month or apply a timed-re lease fertilizer.

You can propagate these plants from stem cuttings. Place cuttings in builder' sand or in a mixture of sand and ver miculite until roots form. Plant rooted cuttings in a potting soil that contain plenty of organic material.

Crossandra plants are available at flowe shops and nurseries. Seeds and smal plants (2¼-inch pots) are available by mail from George W. Park Seed Co. Inc., Greenwood, S.C. 29647; write fo their free catalog.

How to make a kitchen

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It's a griddle. And a grill. And a 4-element cooktop. And it ventilates itself.

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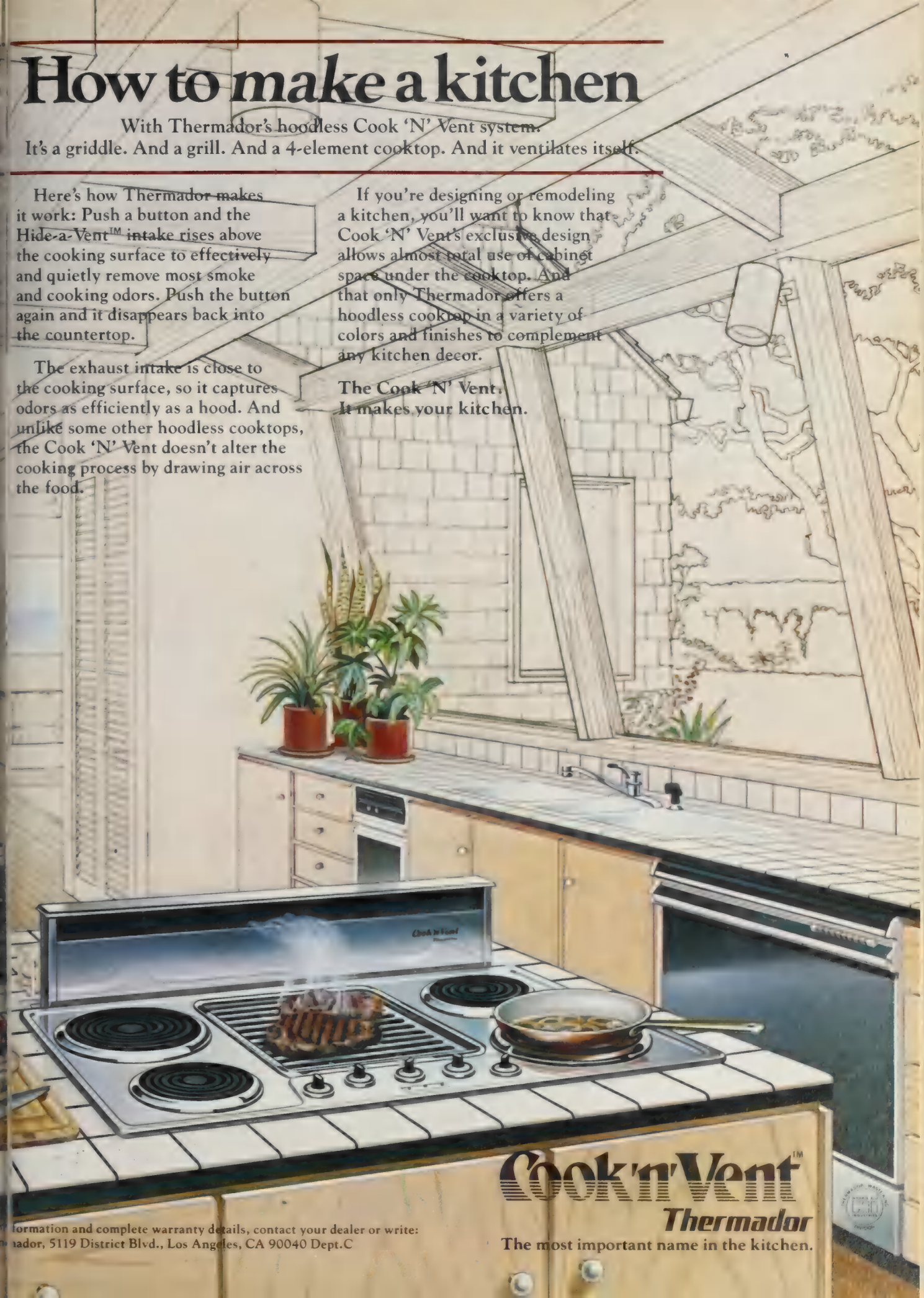

formation and complete warranty details, contact your dealer or write:
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The most important name in the kitchen.

"When I'm working the loading racks at Pittsburg, I want everything to be cool, no hassle!"

Ardell Lawson, Distribution Specialist, Western Division, Dow Chemical U.S.A.

Loading and unloading chemicals every day isn't strictly a routine job. To workers at the Dow plant in Pittsburg, California, it amounts to a strict job routine—where 'caution' is the operative word.

"It's the little things you have to watch for," says Ardell Lawson. "When I'm up on the rack filling a rail car, I don't want anything comin' back to haunt me. I'm always lookin' for the chipped wheel, broken ladder, sticky valve—anything that might spell trouble later on.

"Same goes for truck loading. I won't start the flow until I've checked the driver's papers, inspected his rig for proper valves and seals and made sure he has the right equipment for the chemical we're shipping.

"I've been with Dow eight years now, and one thing I've learned about chemicals—they're not something you can take for granted. You've got to give them the care and handling they deserve.

"It's like my dog, Aladdin. He's still a pup runnin' wild. But if you know where he's comin' from, and treat him with respect, I figure he'll return the favor... right boy?"

DOW*

common/uncommon sense/chemistry

Send for an informative 22-page brochure, "A Challenge to Fear," Dow Chemical U.S.A., Department J, 2020 Dow Center, Midland, Michigan 48640.

*Trademark of The Dow Chemical Company

BILL ROSS

Spring garden *features all-yellow selections of snaps, African daisies, calendulas*

Garden achievement? Send us your contest entry

It's time to enter *Sunset's* Garden Contest. Right now, our scouts are visiting and photographing gardens throughout the West for possible publication in future issues of the magazine.

What sorts of gardens are we looking for? Any with publishable ideas or achievements, large or small. This month, we are especially interested in spring performers—whether they are bulbs, annuals, vegetables, or permanent plants. During the summer, we'll be looking for food-producing landscapes, small-space gardens, and other ideas.

Here are outstanding features of 6 of last year's 12 winners:

A year-round flower garden. Alice Menard of Lakeside, California, told us: "When I saw the silver-haired woman in her garden on the March 1979 cover I thought my garden would look just as good, so I entered your contest." Mrs. Menard didn't appear on the cover, but she did win first place. Parts of her fall-planted garden are shown in color on page 95 of last October's issue in all but the Northwest edition of *Sunset*.

A floriferous firebreak. George and Mary Ellen Guffey surrounded their Malibu home with slow-to-burn plants. A fire in the Santa Monica Mountains melted some of their PVC pipe and scorched a few plants, but their home was unscathed. Their insurance company was favorably impressed.

A food garden that looks as good as it tastes. Nina and Bill Stull of Fremont, California, keep theirs picture-perfect most of the year. You can see it on page 252 of last month's issue.

A solution for slopes. Lanaya and Richard Deily of Moraga, California, consulted experts, then cantilevered a deck over their ravine. Zigzag trails to the deck are banked by native and drought-tolerant plants.

An energy-saving design. Nancy Clark of Tucson designed and had built an ecology-conscious greenhouse. When heat gets excessive, she removes one of all of the lightweight walls.

A desert meadow. It looks cool, lush, and delicate, but the Taggarts used only drought-tolerant, low-maintenance plants to transform their lot in Mesa, Arizona.

You'll be hearing more about these winners—and others—in future issues.

How can you enter?

Just send us at least five different photographs of your garden in its prime and a brief description of what you have done. You can use photographs from recent years as long as they give a reasonable idea of how your garden looks now.

Include your name, address, and daytime telephone number, and send the material to 1980 Garden Contest, *Sunset Magazine*, Menlo Park, Calif. 94025; we'll send you details and an entry number.

Every gardener who sends in a complete entry will receive a certificate of participation and a free *Sunset* book. Winners receive cash awards. Judging is based on your photographs and notes, plus any material gathered by our scouts.

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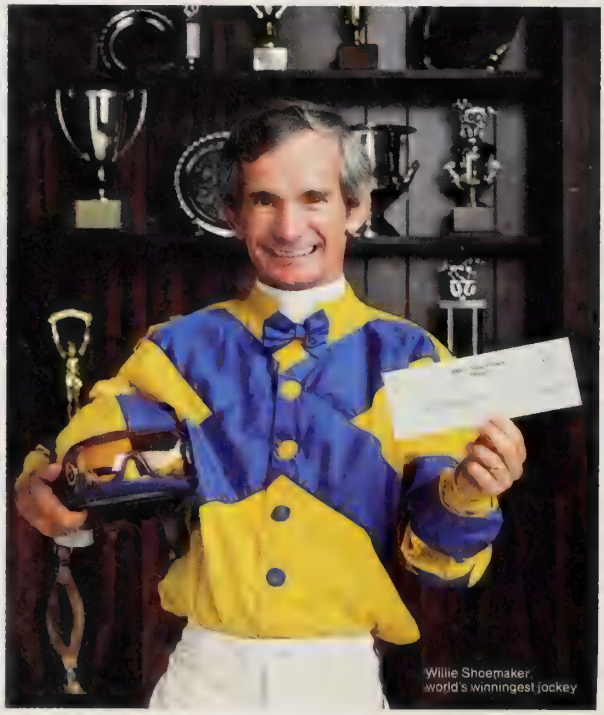

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DAVID ST[illegible]

Pruned heavily, *sculptural 15-year-old African sumac is in Los Altos, California, garden of Ron Larson*

African sumac is a winner

A trendy tree? Some gardeners and pr fessional plantsmen are betting on Af can sumac (*Rhus lancea*) to top t most-popular lists of the 1980s.

Southwest desert gardeners years ag discovered African sumac as an eve green shade tree that thrives in summ heat. Today you'll see it in Southern Ca ifornia gardens and in a few places northern California. However, it w grow anywhere in the mild-winter Wes *R. lancea* is adaptable, fast-growin when young, and undemanding. Onc established, it is fairly drought-toleran surviving even if planted in a lawn. grows to about 25 feet tall, either as tree or as a large, multistemmed shrub.

The bark is rough and usually reddis brown, or dark brown in some deser climates. The tree's airy appearanc comes from its dark green, willow-lik leaves on slightly weeping branches.

Its uses are many: Clip a row to shape a a screen, hedge, or background planting Grow a single-trunked specimen as lawn or garden tree. Or train a multi trunked one to grow up and out like a olive. You can buy single- or multi stemmed specimens in 1-, 5-, and 15 gallon containers. Cost ranges from about $5 to $75.

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Action against oxalis, spurge

Two of our most aggressive and p sistent lawn weeds are oxalis or yell wood sorrel (*Oxalis corniculata*) a spotted spurge (*Euphorbia supina*). Th thrive under lawn watering and mowin they seed freely, and they shrug off mo herbicides.

There are, however, two chemicals ava able for control: ammonium thiosulfa and sodium thiocyanate have greater ki ing power against oxalis and spurge tha they have against grass and dichondr As garden chemicals go, they are n highly toxic, and they do not persist i the environment or accumulate in th soil. They are generally available an are easily recognizable by having *spurg oxalis,* or both on the label.

Two drawbacks have kept them fro wider recognition: First, they tend t give control rather than complete kil especially against the perennial, tap rooted oxalis. Second, they are mos needed in hot weather when the weed are flourishing, yet they are most dan gerous to grass and dichondra at thi time. Low temperatures give little wee control, and high temperatures can dam age the lawn.

Ten (or thereabouts) commandments

With these as with all garden chemicals you should read labels carefully an completely before taking action. Wate the lawn first, then hold off watering fo 48 hours after application so chemicals can be absorbed. Check not only curren temperature but the predictions; a sudden rise could cause damage to the lawn. Don't use on freshly mown dichondra.

Use the kind of spray equipment suggested by the label. Spot spray where weeds appear, wetting the weeds thoroughly but not soaking the soil. Clean sprayer after use to avoid corrosion of metal parts; use plenty of clear water. Keep materials locked up.

Results are gratifyingly quick; first there is a faint brimstone odor, then leaves of weeds begin to wilt and wither, usually within a few hours. Occasionally burn signs will appear on grass or dichondra, but new growth soon conceals damage.

For additional weed control, use preemergence materials in winter and early spring—neburon on dichondra, dacthal on grasses (except bents and fine fescues). Mow high (1½ inches or higher) to shade out weed seedlings. □

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How and why garden tools benefit from sharpening

NORMAN A. PL

Use both hands *to hold the file at a 45° angle, a bench vise to grip the tool*

Well-sharpened garden tools that cut quick and clean save wear on the gardener, and a sharp edge prevents the need for excess pressure on tool handles.

For sharpening shovels, hoes, mattocks, and axes, the least expensive and most portable tool is a 10- to 12-inch-long flat file called a mill bastard file or all-purpose file. These normally have one rough side for coarse sharpening and a fine side for finish sharpening. They sell for about $3 to $5 in hardware stores.

How to use a file. Before sharpening any tool, use a wire brush or fine sandpaper to remove dirt or caked mud. Use a bench vise to hold the blade of the tool steady. Hold the file handle with one hand and grasp the end of the file in the other, as shown. Sharpen the cutting edge of the tool at about a 45° bevel. The file does its work on the push (downward) stroke; don't drag the file back and forth.

Sharpen shovel blades on the front or dished side. Sharpen hoes on the back side. To sharpen axes and hatchets, use the fine side of the file; for a razor edge finish with a sharpening stone.

After sharpening tools, apply a light coat of oil to prevent rust.

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DON NORMA

Coin-size leaves, *royal blue bloom characterize miniature 'Midget Midnight'*

Just her size, mini-violets

The beginning gardener in the photograph above is admiring something that' scaled to just her size—miniature African violets. Treat them well and these lilliputian house plants, like their bigger relatives, will give almost continuous bloom.

Miniature African violets blossom in a variety of colors, including shades of pink, red, blue, purple, and lavender. But few nurseries or plant shops carry a complete selection, so you'll have to do some searching.

Because the plants seldom spread to more than 6 inches across, they're perfect for small (2½-inch) pots on windowsills. East- and west-facing windows are best. A north window may get too little light, resulting in little or no bloom, while a southern exposure may scorch leaves or turn them yellow.

Watering is important. Little pots dry out quickly, and like other African violets, these need to be constantly moist but not soggy. Use lukewarm water and avoid getting it on the crown of the plant.

Potting mixes made for African violets work best because they provide good drainage. It's also important to fertilize. Commercial African violet foods are best; follow label directions and fertilize lightly. It's always better to use too little than too much.

Keep faded blooms picked, remove old or tattered foliage, and give the pot a 90° turn weekly so all sides get equal exposure to light. A well-tended plant in a 2½-inch pot will need to be divided and repotted in about a year. □

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Gas Appliance Manufacturers Association

The new gas appliances are good for your economy.

*Comparisons are based on the average conditions specified in the Department of Energy test procedures.

NORMAN A. PLATE

Hose guides *flank a rustic tiled path and help protect iris, montbretia, and other leafy plants*

Angled *like a tree crotch, hose holder bear spigot is made of 2 by 4 and wooden wedge bolted to a notched log*

Hose guides and hose holder

Feet stay dry, plants aren't smashed, and the hose doesn't kink in this watering equipment area of a small entry garden.

The hose stretches from the end of a tiled pathway to all areas of the garden. But it doesn't drag across plantings between spigot and sidewalk because of two hose guideposts at the head of the path. The posts are treated "peeler core" logs ½ foot in diameter and 4½ feet tall; they're sunk 1½ feet below the ground.

When watering is done, the coiled hose hangs on a forked post near the spigot. □

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For high-elevation gardeners, May is time to take action

Sunset's MOUNTAIN STATES GARDEN GUIDE

Ancient Romans called it Maius, this fifth month associated with the vigorous, blooming time of year. For high-elevation gardeners, May means planting, pruning, watering, and watching for a few pests. Here are ideas to help you get your garden vigorous and blooming.

Strawberries for high elevations

Strawberries are one of the hardiest fruits a mountain gardener can raise. Properly mulched in winter, some varieties survive in temperatures as low as −40° and thrive at altitudes up to 10,000 feet.

Two types of strawberries are available: June bearers and everbearers. June bearers produce lots of huge berries in early summer. Some good choices are 'Hood', 'Marshall', 'Olympus', 'Puget Beauty', 'Rainier', and 'Shasta'.

Everbearing strawberries produce some fruit about the same time as the June bearers, then intermittently throughout the summer; they are generally hardier than June bearers. In nurseries look for 'Fort Laramie', 'Ogallala', 'Ozark Beauty', 'Quinault', 'Sequoia', and '20th Century'. 'Sequoia' produces abundantly; fruit is the tastiest of any variety.

During the bearing season, strawberries like full sun, loose, fast-draining soil, and lots of water.

This month look for strawberries as bedding plants. In 2¼-inch pots they'll cost from 45 to 75 cents; trays of six plants run about $1 to $1.70.

Something different for shady spots

Ostrich fern (*Matteuccia pensylvanica*) is native to the East Coast but can thrive in shady or partly sunny spots in high-elevation gardens. Feathery fronds reach about 18 to 24 inches. In cut flower arrangements, they last about a week.

BARRY ST

Shady border *of light green ostrich fern was started from divisions four years ag Garden of Dorothy Falkenberg, Denve*

These ferns are somewhat difficul to find; call several nurseries in your ea to check availability and price (ex ct to pay about $3 to $5 for a gallon-ze plant). Once established, the ferns spr slowly by runners, and new plants r easy to start from divisions. Use ost ferns around the base of trees or beds of spring-flowering bulbs to cr a cool, woodland effect.

They grow best in loose soil. Let the 2 inches of soil dry out between wa ings. In fall, pull off dead fronds mulch plants with 2 to 3 inches of lea or pine needles.

If your green thumb turns brown, pick up the phone

Do you have a gardening question t needs an expert answer? Cooperative tension offices in the areas listed h

MAY CHECK LIST: *Here are the jobs that need doing*

☐ **Care for bulbs.** Remove faded flowers but leave green tops so spring-blooming bulbs store energy for next year. Feed them with a high-phosphorus fertilizer during or just after bloom.

☐ **Fertilize lawns.** When lawns start to grow actively, apply 1 pound of actual nitrogen per 1,000 square feet of lawn area.

☐ **Harden off seedlings.** Put started flower and vegetable seedlings in a coldframe or other protected spot for gradually lengthened periods.

☐ **Plant annuals.** Plant these from seed or as nursery-started bedding plants: African daisy, bachelor's button, calendula, clarkia, cleome, godetia, linaria, lobelia, pansies, snapdragons, sweet alyssum, sweet William, verbena, and violas. At month's end, plant warmth-loving marigolds, petunias, and zinnias.

☐ **Plant nursery plants.** This is prime planting time for container-grown evergreen shrubs and trees and for ground covers.

☐ **Plant vegetables.** Early this month, make second plantings of beets, broccoli, carrots, lettuce, peas, radishes, spinach, and Swiss chard. At month's end, plant the warm-season crops: cantaloupe, beans, corn, peppers, tomatoes, watermelon, and winter squash. Keep soil moist until seeds emerge.

☐ **Prune.** Tip-prune euonymus to encourage bushy growth. Remove winter-killed branches from pyracantha, junipers, Oregon grape, and yews. Prune raspberry canes back to 4 or 5 feet. Finish rose pruning; delay pruning spring-flowering shrubs until bloom is past.

☐ **Water.** Watering becomes a critical chore this month. Water vegetables just when they begin to look droopy. Begin a deep watering program for lawns, trees, and shrubs.

DAVID STUBBS

Fluffy-looking tough guys, *spider flowers grow about 6 feet tall and 4 feet wide, withstand hot sun, drought, and wind. These grow in Dr. Gordon Windle's Spokane garden*

w can connect you with 2- to 3-min- tape-recorded messages on garden- and other topics. On your first call, the operator to send you a brochure ing the taped messages.

lorado. The "Teletips" system began arch 1. In the Fort Collins area only, l 491-7387. Residents in other parts the state dial toll-free (800) 322-2473.

aho. The "Phone Tips" program is ted to begin this month for residents three cities. In Twin Falls, call 733- 62 between 8:30 and noon or 1 to 5. Pocatello, dial 232-8231, extension 1, from 8 to 5. In Boise, call 384-8780 information about "Phone Tips" vice.

ashington. The Spokane extension hone Facts" system operates weekdays 0 to 4. Call 456-3672.

ah. Salt Lake County residents can l 533-0146 weekdays from 8 to 4:30 "Tips-on-Tape" messages.

ider flower—fast, easy, unusual

ider flower (*Cleome spinosa*) must be well-kept secret from high-elevation rdeners: only rarely do you see this l annual. But spider flowers are ideally ted to mountain gardens: they like dry nditions and plenty of sunlight, and nd high winds without staking. Use em against a fence or wall, as back- ound for shorter annuals (as pictured ove), or as a summer hedge.

w seeds toward the end of this month. seed racks, look for named varieties t indicate color, such as cherry, uve, pink, purple, rose, or ruby. Va- ty 'Helen Campbell' is white.

iling the cutworm

tworm damage on tender vegetable dlings is easy to spot: it looks as if someone had snipped off young plants at ground level with a pair of scissors. Here are some ways to control these black, brown, or multicolored worms without using poisons:

Pull weeds and cultivate soil to destroy egg clusters.

Plant young seedlings in a protective paper or cardboard sleeve, as shown in the photograph below.

Cutworms must wrap around the base of a plant to chomp through it. To stop them, poke three or four twigs 1 to 2 inches into the ground about ¼ inch away from the stem.

Hand-picking at dawn or after dark with a flashlight (they burrow underground during the day) is also effective. □

Cutworm protector *surrounding young tomato plant is waxed milk carton cut into thirds and set 1 inch below soil level, 2 inches above. Roy B. Schmidt garden, Reno*

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DARROW M. W

Shadecloth tent *reduces heat and light enough to allow harvest of heat-sensitive crops such as lettuce, radish spinach—even in midsummer. Struts of flexible ½-inch PVC pipe bowed over bed support the plastic mesh clo*

Innovative thinkers at a research garden called Common Ground in Palo Alto, California, are coming up with some practical solutions to age-old gardening problems.

The simple PVC pipe framework shown above enables gardeners to extend the growing season at both ends. To grow heat-sensitive plants such as lettuce, spinach, or radishes in summer—or to transplant any crop with less heat shock—these gardeners put a shadecloth tent over the PVC pipes, as pictured above. In winter or early spring, they replace the cloth with clear plastic sheeting hold in heat, as at lower right.

What shadecloth can do

Shadecloth is actually fine plastic me colored dark green or black. For mo gardeners under most conditions, a clo

DAVID STUBBS

Gardening under a roomy tent you make with shadecloth or plastic over PVC pipe

Best density *for vegetables in most climates is 47 percent. Other cloths available cast 6 to 95 percent shade*

Broom clip *clamps shadecloth to ›ipe frame—use about three clips per strut*

at casts about 47 percent shade is the st choice for vegetables. Shadecloth at casts only 30 percent shade may be eferable when weather is just slightly ›t, as in late spring, or for shading ants that are only slightly heat-sensi-/e. During summer in desert climates, 55 percent shadecloth will probably give better results. Higher density cloth tends to reduce vegetable growth too much.

One caution: the denser the shadecloth you use, the more care you should take not to overwater, and to provide adequate ventilation in order to avoid fungus problems. One solution is to raise the sides and secure them with broom clips to let in morning and late afternoon light and improve air circulation.

In this garden, shadecloth reduced watering frequency by 50 to 75 percent. Common Ground gardeners poke a fine nozzle on a wand under the netting for even water distribution.

Another benefit of shadecloth may be to reduce insect damage. Common Ground gardeners found that beds covered with 30 percent shadecloth, with the sides down, had about 75 percent less damage from cucumber beetles than uncovered beds of the same crop nearby.

Where to buy, how to store

Shadecloth is difficult to find in some areas and price varies widely. Greenhouse and nursery supply centers and awning stores often sell it by the yard or can order for you. One mail-order source is Jacobs Brothers Co., 8928 Sepulveda Blvd., Sepulveda, Calif. 91343; (213) 892-1121. Specify dimensions, shade density, color, and edge finish you want. A 6- by 10-foot piece of 47 percent cloth with raw edges hemmed costs around $18. With care, it can last 15 years.

Anchor shadecloth securely when in use so that wind doesn't tatter or crimp it. The double-spring, C-shaped broom clamps pictured at left cost 30 to 70 cents each at hardware stores. In very windy weather, you may also need 2 by 4's to weight down the sides. To prolong the cloth's life, roll rather than fold it for storage.

Want more heat? You can put on a plastic sheet

To give heat-loving crops such as tomatoes a faster start, or to help cool-season crops grow faster in winter, you can use the same PVC pipe frame as support for a plastic hothouse. Clear polyethylene sheeting is sold at hardware stores for about $7 for a 10- by 25-foot sheet which can last 6 to 12 months. Vinyl sheeting costs much more (it's sold mainly by plastic specialists; see the yellow pages), but can last three to six years.

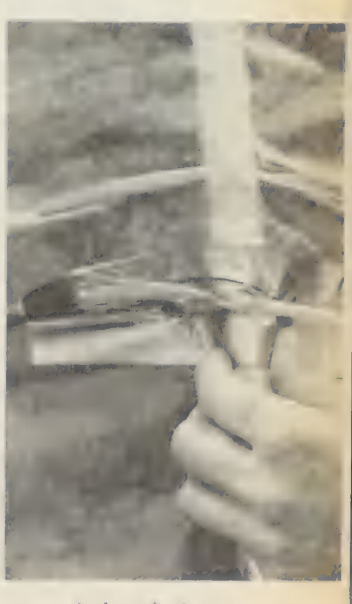
Reinforce areas where broom clips or ties fasten the plastic sheeting with aluminum duct tape on both sides as shown below. In windy places, tie the four corners of the plastic sheeting, and wire pipe bases to aluminum dog tethers. Clear plastic sheeting also lasts longer if you roll rather than fold it for storage.

To make the framework

To straddle a 5- to 6-foot-wide bed, you need 10 feet of PVC pipe for each strut. Place struts about 5 feet apart and sink each end about 9 inches into the ground. The top of the arc you form should be about 2½ feet above soil level. Class 200 PVC, ½ inch in diameter, is inexpensive and bends into an arched bow easily; it costs about 10 cents a foot at plumbing supply stores.

To give the structure more rigidity, you might want to run a crossbar of PVC down the top of the arches. Use a PVC T-fitting on the two end struts and four-way fittings on the other struts. Sand the inside of the fittings enough to slip them over the struts; then fit the crossbars into place. ▫

Change to clear plastic *over PVC frames to hold heat and speed growth in winter and early spring. For ventilation, slide plastic a foot or two up the frame*



Wind security: *Left, screw dog tether into firm ground, thread wire through ring and hole drilled in pipe. Right, reinforce plastic with duct tape on both sides, punch holes, tie at each pipe's base*

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The weedicide that kills the toughies

A new herbicide designed to kill Bermuda grass, nutgrass, Canada thistle, morning glory, Kikuyu grass and about 70 other notoriously tough weeds is now widely available to home gardeners.

The herbicide glyphosate (sold under the brand name Roundup to commercial users since 1976) has just received Environmental Protection Agency (EPA) clearance for home garden use.

Initially, in most of the West, this liquid spray concentrate will be sold for about $12 to $14 per quart under the brand name Kleenup. In Arizona, the same chemical has been sold for several years under the name Doomsday.

How glyphosate works

Once sprayed, the leaves and green bark of actively growing plants absorb this herbicide, which then translocates to all plant parts, including roots. It kills plants by inhibiting their ability to circulate nutrients; plants eventually die of starvation.

Glyphosate does not act upon the roots of any kind of plant. Also, being a nonvolatile chemical, it will not vaporize from the treated area to injure nearby garden plants.

When and how to use it

To control weeds most effectively, spray the herbicide when plants are growing vigorously. To kill Bermuda grass for example, apply it in late spring, summer, or early fall.

If you decide to till or spade after spraying, wait at least seven days so that weeds have sufficient time to circulate the chemical to the roots.

Rainfall within six hours after application may wash some chemical off the plant; use a repeat spray.

On annual weeds, the first wilting and yellowing occurs within two to four days after application. On tough perennial weeds such as Bermuda grass, the first signs of yellowing take place within a week to 10 days, depending on how fast the plant is growing and how hot the weather is (the hotter, the faster). As soon as browning occurs, start looking for sprigs or plants that remain green—spray them again.

As with any herbicide, follow all label instructions exactly: spray only the weeds you're trying to kill. □

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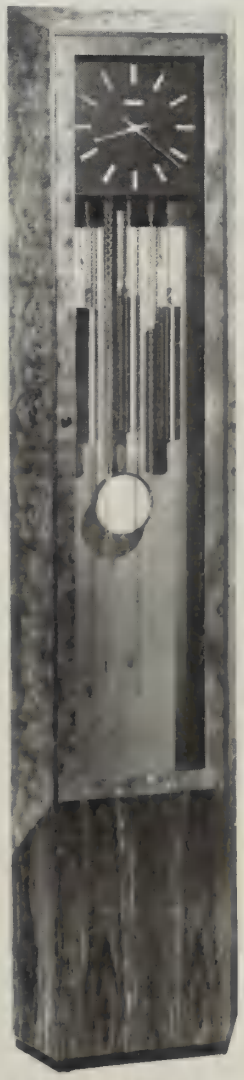

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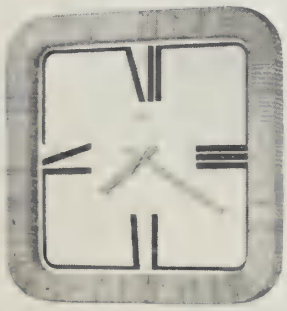

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PETE REDPATH

Demonstrations *often supplement May plant sales. Here Myrtus 'Boetica' is transmuted into bonsai*

Berkeley volunteers *help with U.C. Friends' sale*

May plant sales . . . most with plant society sponsorship

Shopping at plant sales is a splendid way to indulge your acquisitive interests while at the same time feeling ennobled by contributing to a worthy cause—the welfare of a plant society or a community facility whose budget is suffering inflationary pressure. The company is good, the prices right, and you often get bonuses such as lectures, demonstrations, or exhibits.

May is one of the peak months for these sales. Here are a dozen worth visiting in northern California and Colorado.

CALIFORNIA

Sunnyvale. May 9, 10, 11. The Malihini Orchid Society is having a show and sale at the Sunnyvale Town Center, 2502 Town Center. The sale will feature both plants and corsages, and the show will be sponsored by the American Orchid Society. Hours are 10 to 9 Friday, 10 to 6 Saturday, and 12 to 5 Sunday. Free.

Berkeley. May 10. The Friends of the University of California Botanical Garden will hold their annual plant sale in the plaza of the Lawrence Hall of Science above Strawberry Canyon, east of the Berkeley Campus of the University of California. (The hall is on Centennial Drive, which runs from Memorial Stadium to Grizzly Peak Boulevard.) Hours are 9 to 2; admission is free. You'll find a wide range of plants, including many not available in nurseries; look especially for California natives, orchids, perennials, and succulents.

(A Preview Plant Sale, exclusively for members of the Friends, will be held Saturday, May 3, from 1 to 4 at the Botanical Garden, which is also on Centennial Drive. Memberships will be available at the door; they cost $10 individual, $15 family.)

Saratoga. May 10. The Foothill Men's Garden Club will hold its annual plant sale in the Saratoga Village Shopping Center, Big Basin Way and State Highway 9. Hours are 9 to 4. Members have propagated and grown dish gardens, gardens-on-a-rock, succulents, vegetables, and more. Admission is free.

Palo Alto. May 10, 11. The Peninsula Bonsai Club will hold its 27th annual Spring Bonsai Exhibit at the Palo Alto Buddhist Church, 2751 Louis Road. Hours are noon to 9 Saturday, 9:30 to 7 Sunday. Several hundred bonsai will be shown, including at least one 300-year-old example. Bonsai created by members will be available for sale in limited numbers, and 100 bonsai will be given away by drawings. Demonstrations of technique take place at 3 each afternoon. Admission is free, and tea will be served.

San Francisco. May 10, 11. The San Francisco Gesneriad Society will hold a show and sale at the Hall of Flowers, Ninth Avenue and Lincoln Way. (Gesneriads include African violets, gloxinias, lipstick plants, and a host of related showy plants.) Hours are 12 to 5 Saturday, 10 to 4 Sunday. Admission is free.

Kentfield. May 17. The Marin Chapter of the California Native Plant Society will hold its fifth annual sale in the Science Building Atrium, College of Marin, College Avenue. In addition to the sale, there are lectures, exhibits, and slide shows. Hours are 9 to 3. Free.

San Rafael. May 17. The Chrysanthemum Society of Marin will hold its annual spring sale of young chrysanthemum plants from 9 to 2 at the Montecito Shopping Center on Third Street. Th sale's exact location is in front of th Crocker National Bank at 409 Thi Street. For 35 cents a plant, you will b able to buy a complete selection, inclu ing bonsai and spider types. Free.

Walnut Creek. May 17. The Norther California Chrysanthemum Society wi hold its annual sale of young chrysan themum plants from 9 to noon at th parking lot of the United Californi Bank, 1350 N. Main Street. Free.

Walnut Creek. May 17, 18. The Heathe Farm Garden Center Association wi hold a flower show, demonstrations, an a plant sale at the Community Center Heather Farm Park, 301 N. San Carlo Road. Hours are 10 to 4 both days Many kinds of plants will be offered, in cluding native and drought-resistin plants. Admission is free.

Ross. May 21. The Northgate Group o the Marin Art and Garden Center wil hold its annual Market Day at the Marir Art and Garden Center, Sir Francis Drake Boulevard and Laurel Grove Avenue. Hours are 11 to 3. In addition to a plant sale, there will be booths for baked goods, jewelry, and books. Free.

San Mateo. May 24. The Men's Garden Club of San Mateo will hold its annual sale at Borel Square, El Camino Real and Bovet Street, from 9 to 4. Free.

COLORADO

Denver. May 9, 10. The Denver Botanic Gardens will hold a plant and book sale in and around the Botanic Gardens, 1005 York Street. Hours each day are 9:30 to 5:30. You will find bonsai, house plants, perennials, rock-garden plants, vegetables. Admission is free. □

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DAVID STI

Flame-red blossoms *of Cosmos bipinnatus 'Diablo' are 4 to 5 inches across*

Quick, long, and bright . . . cosmos

Often found in traditional gardens cosmos is a rapid-growing, profusely flowering annual. Its long summer-fall blooming period provides bright and plentiful color when other garden flowers have faded.

Cosmos needs full sun and will flower best if planted in sandy, poor soil. Although considered drought-tolerant, it does better if given adequate water, especially in the hotter inland valleys.

Flowers rise above foliage in colors ranging from white to crimson. Sensation, a strain of *Cosmos bipinnatus*, grows from 3 to 6 feet high and makes an excellent background or filmy screen. Its lettuce-green leaves are finely divided, creating a light, airy effect. The Klondike strain of *C. sulphureus* blooms earlier and its coarser leaves make it appear denser and darker. Growing to a height of 2 to 3 feet, it does well as a border along pathways.

Also popular are 'Diablo', with fiery red flowers, and Bright Lights, a strain including vermilion, yellow, gold, and orange flowers.

Cosmos is easy to start. Sow seeds on open ground after all frost danger is past; they will germinate in about five days. Seedlings, also available in nurseries but in fewer varieties, should be planted from 12 to 18 inches apart.

To avoid legginess, pinch back plants when they are about 1 foot tall. Flowers will appear six to eight weeks after seed is sown. □

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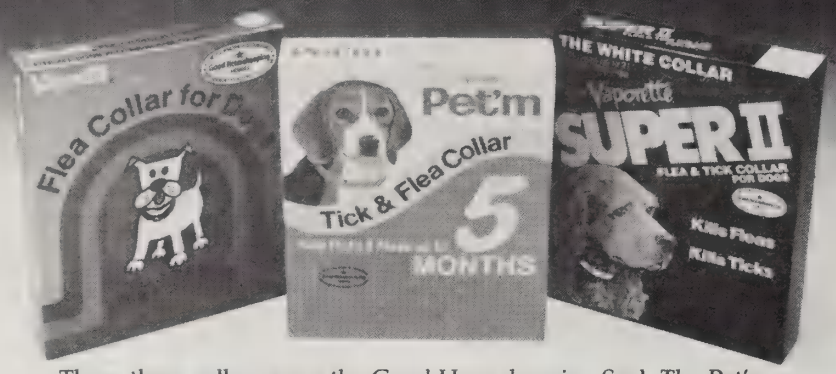

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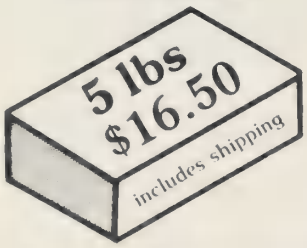

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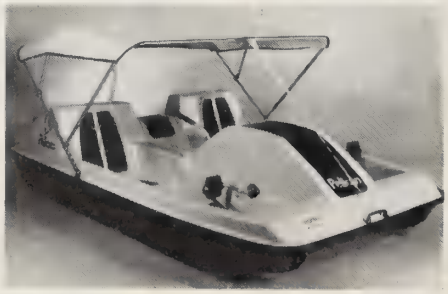

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BILL

Furry paws *of A. flavidus are actually 1- to 2-inch greenish yellow flowers*

Fuzzy perennial: kangaroo paw

This Australian native has nothing to do with the well-known hopper. Kangaroo paw is a blooming evergreen perennial and two varieties (*Anigozanthos flavidus* and *A. manglesii*) have made their way here from the eucalyptus forests of western Australia.

Hardy to about 25°, the plants send up clumps of dark green, swordlike leaves from thick rootstocks. *A. flavidus* grows about 5 feet tall; *A. manglesii* stays around 3 feet tall.

Hummingbirds like to dart about most *Anigozanthos* plants, drawn by the eye-catching tubular flowers. Topping tall stems, the fuzzy buds are curved and segmented at the tips like paws. Blooms range from red to yellow to brilliant green. You can keep plants blooming through fall by cutting off spent flower spikes at the base.

Plants are available at most nurseries year-round, in 1-gallon cans for about $4 each, and occasionally in 5-gallon cans. Locate kangaroo paw in full sun and in light sandy soil; it can also grow in heavier soil with good drainage and careful watering.

Now and in the fall are the best times to dig up, divide, and replant kangaroo paw. You should do this every two to four years to keep plants healthy and growing vigorously, and to increase your stock. Unearth clumps and use a sharp knife to cut plants into pieces containing both roots and leaves. Then replant divisions as soon as possible so they don't dry out. Water to settle soil. □

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Plant sales this month listed on page 272.

NORTHERN CALIFORNIA

San Francisco. Guided plant walks sponsored by the Strybing Arboretum Society of Golden Gate Park. Meet at the information kiosk just inside the main entrance at Ninth Avenue and Lincoln Way. The walks leave at 1:30 P.M. daily; also at 10:30 A.M. Thursday through Sunday. Free.

Healdsburg. May 2 and 3. Flower show presented by the Healdsburg Garden Club. Place: Federated Church, 217 Fitch St. Hours: noon to 5 Friday; 10 to 4 Saturday. Free.

Fort Bragg. May 3 and 4. Flower show by the Mendocino County Rhododendron Group. Place: Senior Citizens Center, 490 N. Harold St. Hours: 1 to 5 Saturday; 9 to 5 Sunday. Free.

Sacramento. May 3 and 4. Annual show of the Sacramento Cactus and Succulent Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

San Francisco. May 3 and 4. Eighteenth annual rhododendron show presented by the California chapter, American Rhododendron Society. Place: Hall of Flowers, Ninth Ave. and Lincoln Way, Golden Gate Park. Hours: 1 to 5 Saturday; 10 to 4 Sunday. Free.

San Jose. May 3 and 4. Annual show of the Santa Clara County Rose Society, cosponsored by the Parks and Recreation Department. Place: Leininger Community Center, Kelley Park, 1300 Senter Rd. Hours: 2:30 to 9 Saturday; 9 to 4 Sunday. Free.

San Mateo. May 3 and 4. Thirty-fourth annual show by the San Mateo County Rose Society. Place: Security Pacific National Bank lobby, El Camino Real and Fifth Ave. Hours: 2 to 8 Saturday; 10 to 5 Sunday. Free.

Oakland. May 4. Annual show presented by the East Bay Rose Society. Place: Lakeside Park Garden Center, 666 Bellevue Ave. Hours: 10 to 6. Free.

Redwood City. May 4. Twenty-third annual show presented by the Peninsula Rose Society, with cooperation of Redwood City Parks and Recreation Department. Place: Community Activities Building, 1400 Roosevelt Ave. Hours: 1:30 to 6. Free.

Richmond. May 5, 9, and 10. A lecture and workshop on making baskets with natural materials. Place: Richmond Art Center, Civic Center and Barrett Ave. Hours: Monday lecture, 10 to 11:30; Friday and Saturday workshops, 10 to 4. Fees: members $6, nonmembers $7, and seniors $4. Bring lunch. Telephone the art center for details, (415) 231-2163.

Paradise. May 9. Flower show presented by the Paradise Garden Club. Place: Veterans Memorial Hall, Skyway and Elliot St. Hours: 1 to 5. Free.

Davis. May 10. African violet show presented by the Yolo Violeteers. Place: United Methodist Church, 1620 Anderson Rd. Hours: noon to 7. Free.

Citrus Heights. May 10 and 11. Rose display sponsored by the Sierra Foothills Rose Society. Place: Sunrise Mall, Sunrise St. and Greenback Lane. Hours: 9 to 9 both days. Free.

Oakland. May 10 and 11. Annual spring wildflower show sponsored by the California Native Plant Society and the Natural Sciences Guild. Place: Natural Science Gallery, Oakland Museum, 1000 Oak St. Hours: 10 to 5 Saturday; noon to 7 Sunday. Free.

Oakland. May 10 and 11. Annual show of the African Violet Society of the East Bay. Place: Lakeside Park Garden Center, 666 Bellevue Ave. Hours: 2 to 6 Saturday; 11 to 5 Sunday. Free.

Santa Cruz. May 10 and 11. Annual rhododendron and azalea show presented by the Monterey Bay chapter, American Rhododendron Society. Place: Antonelli Brothers Begonia Gardens, 2545 Capitola Rd. Hours: noon to 5 Saturday; 10 to 4 Sunday. Free.

Oakland. May 11. "Rose Sunday" and Mother of the Year Ceremony at Morcom Amphitheater of Roses, end of Jean St., just off Grand Ave. The ceremony is at 2 P.M. The amphitheater with over 400 varieties of roses is always open.

San Francisco. May 11. San Francisco Rose Society show. Place: Hall of Flowers, Ninth Ave. and Lincoln Way, Golden Gate Park. Hours: 1 to 6. Free.

Santa Rosa. May 11. Show by the Redwood Empire Rose Society. Place: Luther Burbank Art and Garden Cente 2050 Yulupa Ave. Hours: 1 to 5. Free.

Ukiah. May 11. Redwood Iris Socie will host the show of late iris by Regi 14, American Iris Society. Place: La Mendocino Clubhouse on Lake Mend cino Dr., north of Ukiah and east o U.S. Hwy. 101. Hours: 1 to 6. Free.

Carmel Valley. May 17 and 18. Nin teenth annual show and a walk of s gardens sponsored by the Carmel Valle Garden Association. Place: Tularcit School, 33 Ford Rd. Show hours: 1:30 t 5:30 Saturday; 11 to 4:30 Sunday. Sho is free; garden tour on Sunday from 1 to 4:30 costs $3.

Citrus Heights. May 17 and 18. Secon annual rose show sponsored by Fountai Square. Place: Fountain Square nurser complex, 7115 Greenback Lane. Hours noon to 9 Saturday; 9 to 9 Sunday. Free

Grass Valley. May 17 and 18. Thirteent annual flower show sponsored by th Chicago Park Garden Club and the Ne vada County Flower Arrangers and Ex hibitors. Place: Floriculture Bldg., Ne vada County fairgrounds on McCourt ney Rd. Hours: 1 to 5 both days. Free

Redwood City. May 17 and 18. Twenty first Annual Flower and Art Show o Redwood City. Place: Veterans Memo rial Building, 1455 Madison Ave. Hours 3 to 9 Saturday; 10 to 5 Sunday. Free.

Sacramento. May 17 and 18. Annua show presented by the Sacramento Geranium Club. Place: Iva Gard Shepard Garden and Arts Center. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Weott. May 18. The 29th annual flower show of the South Humboldt Garden Club and the first show of the Humboldt Iris Society. Place: Agnes J. Johnson Elementary School. Hours: 1 to 6. Free.

Saratoga. May 22. Slide lecture on California plants, native and introduced, sponsored by the Santa Clara Valley chapter, California Native Plant Society. Place: Saratoga Community Library, 13650 Saratoga Ave. Time: 8 P.M. Free.

Sacramento. May 24 and 25. Flower arrangement show by the Tachibana Kai. Place: Iva Gard Shepard Garden and Arts Center. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

COLORADO

Colorado Springs. May through September. Two display areas of plants for the Pikes Peak region, sponsored by the Horticultural Art Society. The demonstration garden in Monument Valley Park, Glen Ave. and Mesa Rd., features conventional landscape plants. The Rocky Mountain Arboretum, White House Ranch complex, west end of 31st St., offers native and introduced drought-tolerant landscape plants. For information and reservations for small group

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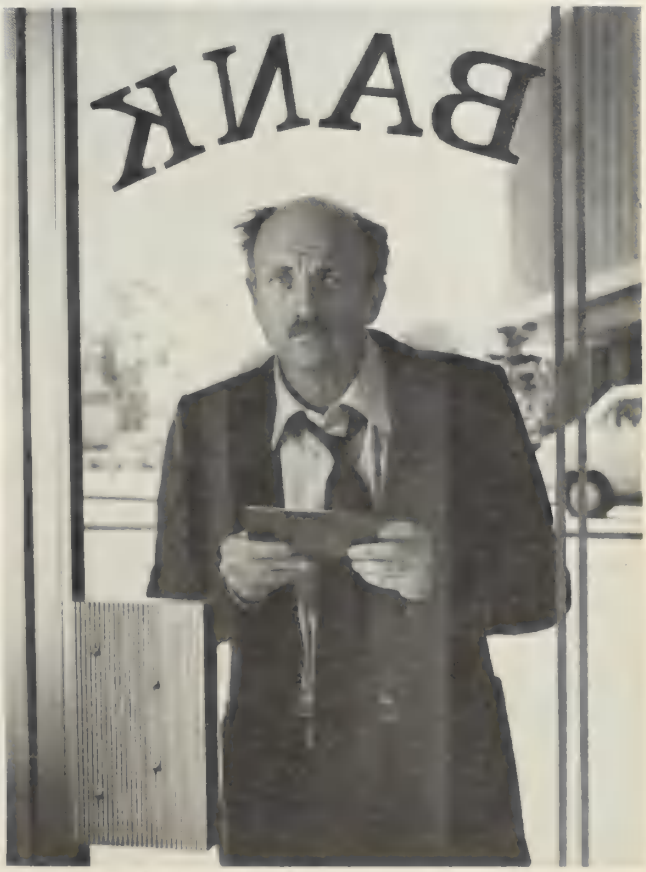

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Denver. Classes at Denver Botanic Gardens, 1005 York St. *May 14 through June 18:* Wednesday course on sketching art in nature. *May 22:* 1-day class care of orchids and bromeliads. Telephone (303) 575-2547 for further information and required reservations.

Colorado Springs. May 24. A talk on edible native plants sponsored by the Horticultural Art Society of Colorado Springs. Place: studio, White House Ranch complex, west end of 31st St. Reservations are required as seating is limited; call (303) 635-1909 or 475-9267. Admission for nonmembers, $1.

Denver. May 31, June 1. American Iris Society show. Place: Denver Botanic Gardens. Hours: 1 to 4 Saturday; 10 to 4 Sunday. For further information, telephone the gardens at (303) 575-2547.

NEVADA

Reno. May 17. Annual flower show sponsored by the executive board of Reno-Sparks garden clubs, organized by the Reno Flower Arrangers Guild and the Perennial Gardeners. Place: Senior Citizens Center, Wells and Ninth avenues. Hours: 1 to 9 P.M. Free.

UTAH

Granger. May 17. Show of early iris presented by the Utah Iris Society. Place: Valley Fair Mall, 3601 South 2700 West. Hours: 10 to 6. Free.

Salt Lake City. May 31 and June 1. Tall iris show by the Utah Iris Society. Place: Activity Center, Sugar House Park, 1601 East 2100 South. Hours: 11 to 6 Saturday; noon to 5 Sunday. Free. □

Garden show moves

The California Spring Garden Show moves permanently to turn-of-the-century Dunsmuir House and Gardens in Oakland with its golden anniversary show, May 10 through 18.

The city-owned mansion is at the head of Peralta Oaks Court in the Oakland foothills; drive east on the 106th Avenue exit from the MacArthur Freeway (I-580), then turn right onto Peralta Oaks Drive. Some parking is available on the grounds. Admission is $3.50 for adults on weekends, $2.50 weekdays; $2.50 senior citizens; $2 ages 12 through 16. Hours are 9:30 to 5:30 daily.

On the lawn will be nursery and garden club exhibits, a playground for small children, and a stage for performances by local groups. For details, call (415) 893-0677. □

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DON NORM

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Train it to sprawl, train it to stand

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The young, downward-trained plant shown above came straight from a nursery. It was left in its container to function as a sculptural garden evergreen. In several years, when the fiber pot begins to deteriorate, the owner will tear the pot off, tip-prune the plant's young roots, remove old knotty roots altogether, and repot the healthy, vital, central roots.

The six-year-old, upward-climbing plant pictured at right was trained up a stake as a cutting. Long branches that would normally have spread out were pruned back, while the single vertical leader was encouraged to grow. Still staked, the juniper now has a formal bonsai look that dresses up an entry.

Kept pruned back so it isn't weighted down by its own growth, the upright juniper will eventually develop a trunk sturdy enough to be self-supporting.

These junipers require minimum care. For best success, plant them in a rich, loose potting mix. Water them well when they're bone dry. Give them an annual feeding with a complete fertilizer and prune off dead growth and shoots that interfere with the form you want. Growth is slow, so you need not prune or repot often. □

You can train *the same kind of juniper to climb a stake as a small tree*

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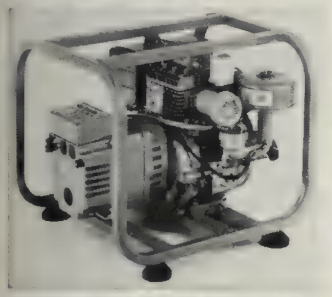

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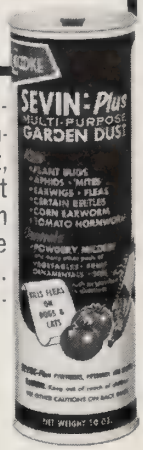

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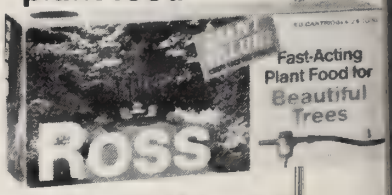

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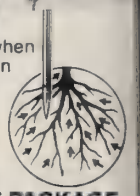

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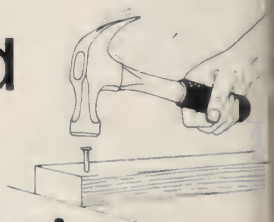

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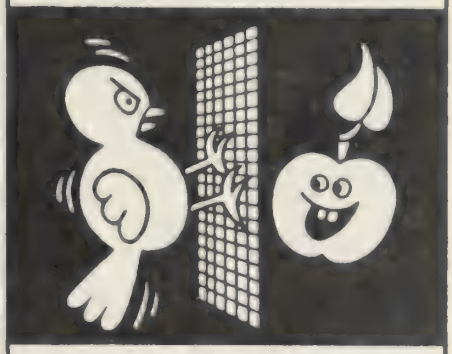

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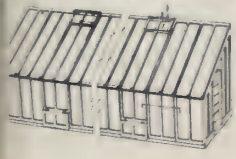

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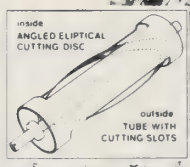

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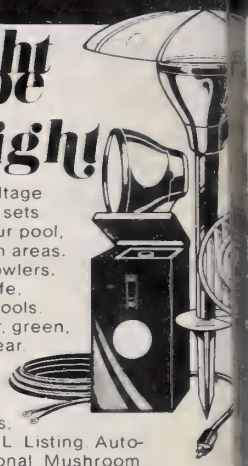

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The all-over *ground cover (cat walking on it) is blue star creeper (Laurentia fluviatilis). Grape ivy (Cissus rhombifolia) cascades down wall*

A year old. Here's how it was done

Planting a bare steep bank and having it look like the photograph above only 11½ months later is something of a triumph. It's not magic—just visual proof that proper soil preparation, regular feeding, and adequate moisture pay the highest dividends.

Bank planting is invariably more difficult than flat land planting. You can't take short cuts in properly working the soil and digging planting holes. If you do, the result can be a bank that remains in a partly covered, erosion-prone condition for years.

We asked landscape designer Eric Stodder of Biosphere how he went about it for owners Judy and Mike O'Dell of Laguna Beach, California. Their bank sloped 45° in places and had outcroppings of natural sandstone near its top. Here is his formula:

For each 1,000 square feet of bank (the one shown here is approximately 1,600 square feet), spread 6 cubic yards of nitrogen-fortified sawdust (or locally available substitute) and 15 pounds of 16-20-0 dry fertilizer (the product used here was a mixture of fir shavings and chicken manure bought locally in bulk). Thoroughly cultivate into existing soil to a depth of 6 inches. This step primarily aids rapid growth of ground covers.

Dig planting holes 2½ times the width of each rootball and twice the height. For planting, use a mixture of 6 parts existing soil and 4 parts nitrogen-fortified sawdust (or substitute). For each cubic yard of this mix, add 1 pound of 16-20-0 fertilizer and 2 pounds of iron sulfate. Include slow-release fertilizer tabs in the planting holes: one tab for a 1-gallon plant, three for a 5-gallon plant, five for a 15-gallon plant.

After planting, thoroughly hand-water each planting hole, then water ground covers with sprinklers. Keep the bank fairly wet for the first three weeks to help get ground covers established, then reduce watering to 3 or 4 times a week. Run sprinklers for only 3 to 4 minutes each time to avoid runoff (this bank has a sprinkler system using low volume heads). Use a liquid fertilizer every month to maintain growth. □

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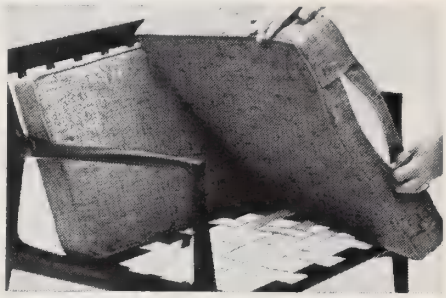

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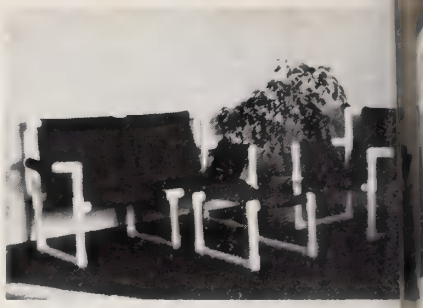

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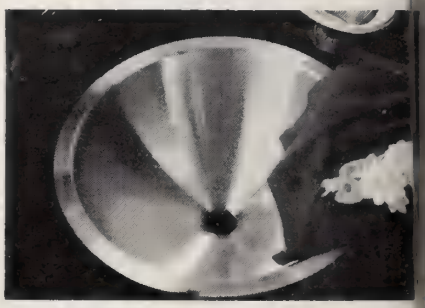

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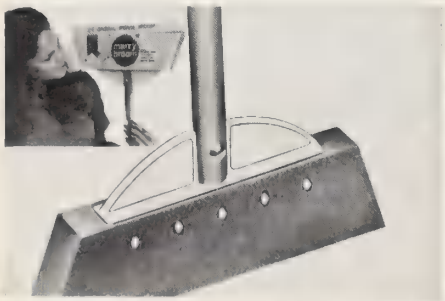

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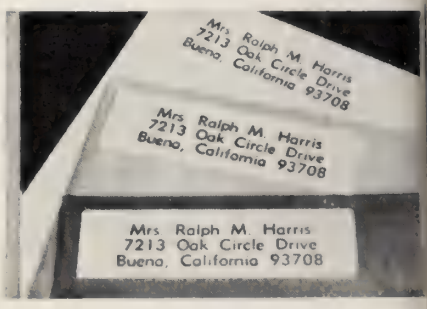

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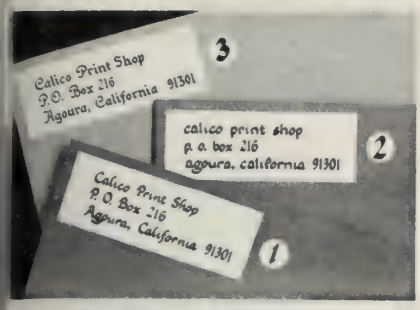

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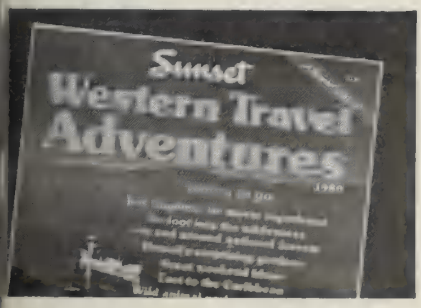

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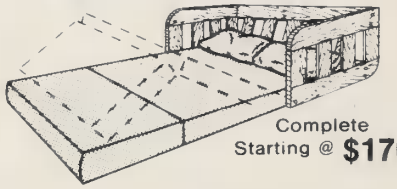

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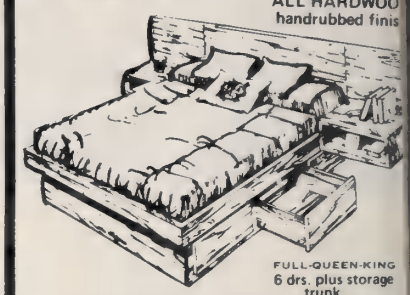

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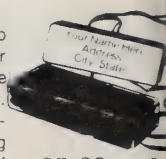

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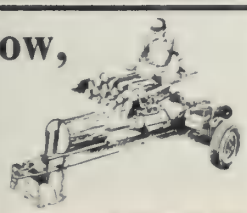

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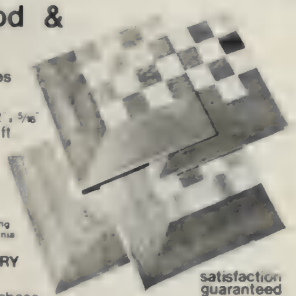

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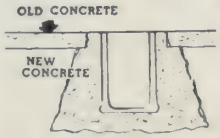
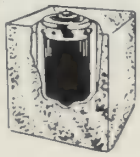


IN A BLOCK
For above floor installation can be made in concrete block with steel cladding or plywood form



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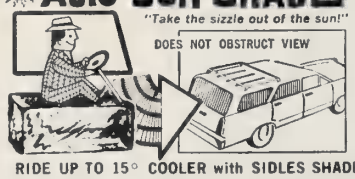

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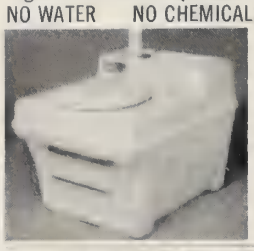

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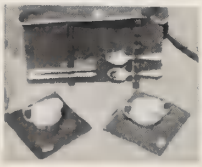

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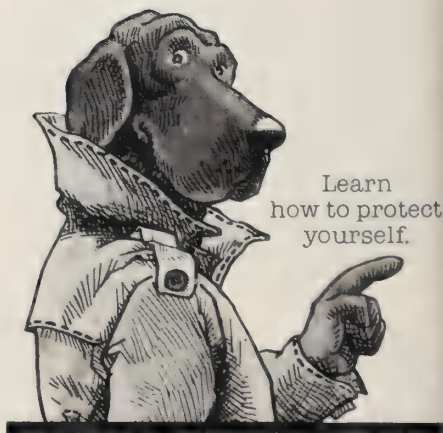

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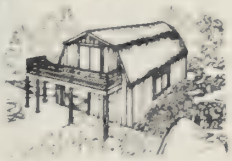

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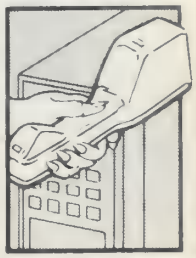

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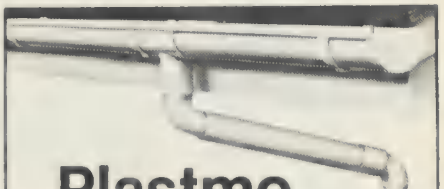

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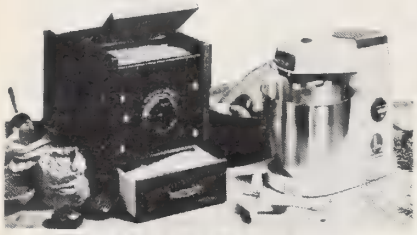

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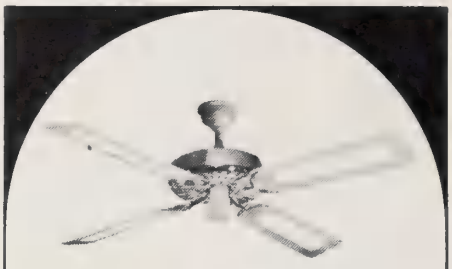

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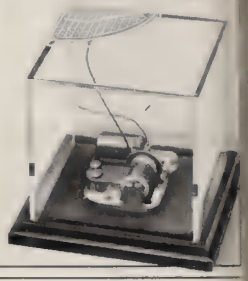

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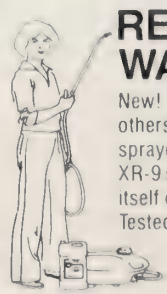

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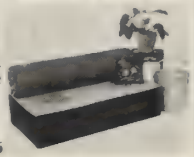

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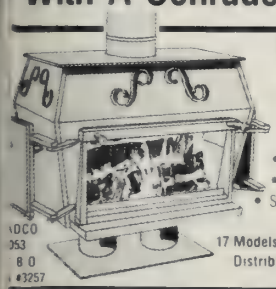

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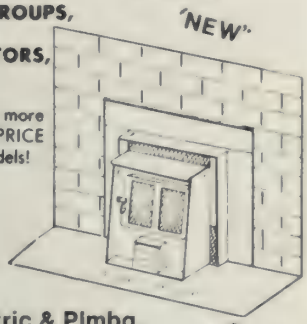

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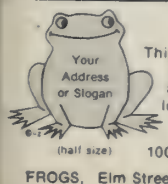

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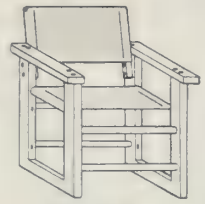

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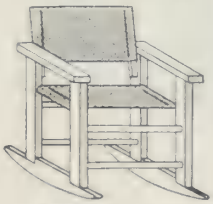

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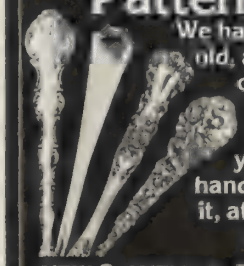

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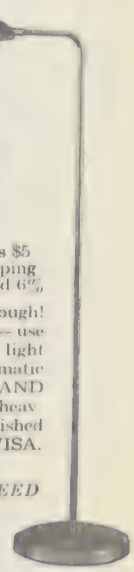

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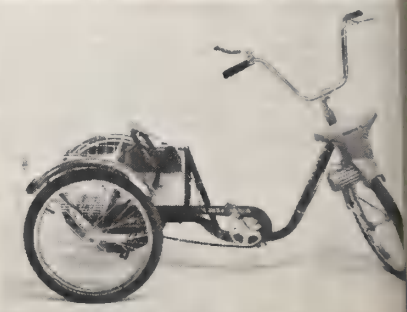

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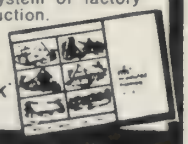

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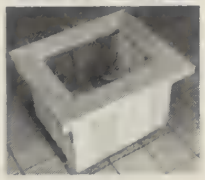

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LETTER FROM *Sunset*

Western cities take action on urban transit

The Portland Transit Mall (see page 112 of this issue) is just one example of recent urban transportation innovation in the West. A host of environmental concerns, but especially the cost and availability of gasoline, are spurring more cities into action.

Today's trend is toward less expensive, more flexible bus, "light" rail, and electrified bus systems, and away from more costly "heavy" rail systems like Bay Area Rapid Transit (BART). Here are some examples that you can try out as you travel the West:

Light rail (essentially modernized streetcars) is perhaps the most discussed option. San Diego is building a 15.9-mile line to the Mexico border using no special federal grants. Instead, the city worked within a predetermined budget ("cutting the coat to fit the cloth" as one engineer put it), using existing railroad track and rights-of-way. Scheduled opening: mid-1981. Other cities might have similar abandoned or little-used track waiting for new use.

San Francisco has begun operating its new light-rail Metro cars, and Denver, Portland, Sacramento, and San Jose are considering projects.

Double-decker and articulated buses are high-capacity vehicles: one has two levels, the other is extra long with a middle set of wheels, bending in the middle. Since each driver hauls more passengers, these buses help to cut labor costs. Phoenix has 20 articulated buses on the streets, Oakland has 35, Seattle some 150. Riders in Los Angeles can see both styles running along Wilshire Boulevard.

Electric buses or trolley buses run on city streets with power supplied by an overhead wire; they're cheaper and cleaner to operate than diesel buses. Seattle is revamping and expanding its old system and has two routes reopened now, with some 55 miles due to open by 1981.

Transit malls such as Portland's reserve downtown streets for bus and pedestrian traffic. Denver is building a 14-block mall now. Others are being planned in Boise, Long Beach, Oakland, San Jose, and Santa Rosa.

Other transit programs include "park-and-ride" with free parking lots at the outer ends of commute bus routes (working in Phoenix, Portland, Salt Lake City, San Jose, Seattle). In Los Angeles, a 2.9-mile elevated downtown "People Mover" rail system will soon be under construction, and a proposed Wilshire Boulevard subway awaits planning funds.

Another development in the urbanized West: regional transit systems serving more than one city—and sometimes multiple counties.

As such transit projects look more desirable, funding is becoming more available, with the federal Urban Mass Transportation Administration (UMTA) the most common source. (Operating funds also often require subsidies.) Next month, California voters will consider a new—and controversial—funding source in Proposition 11, which would levy a surcharge on petroleum company profits.

Can improved public transportation lure determinedly mobile Westerners away from urban auto use? These 1980s experiments may soon tell us.

WINDOW ON THE WEST: *Light-rail subway*

The first link in the Municipal Railway's new $330 million light-rail system has been serving San Francisco since February. The Muni Metro line runs underground along Market Street, sharing some multilevel stations with heavy-rail BART, then pops out onto city streets.

The light-rail car is powered by an overhead wire and requires no special right-of-way. Heavy-rail stock uses an electrified third rail and must be isolated from other traffic. While heavy rail is generally faster and can carry more passengers, light-rail systems like Muni Metro are less expensive and more flexible for route-planning.

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Sunset

The Magazine of Western Living

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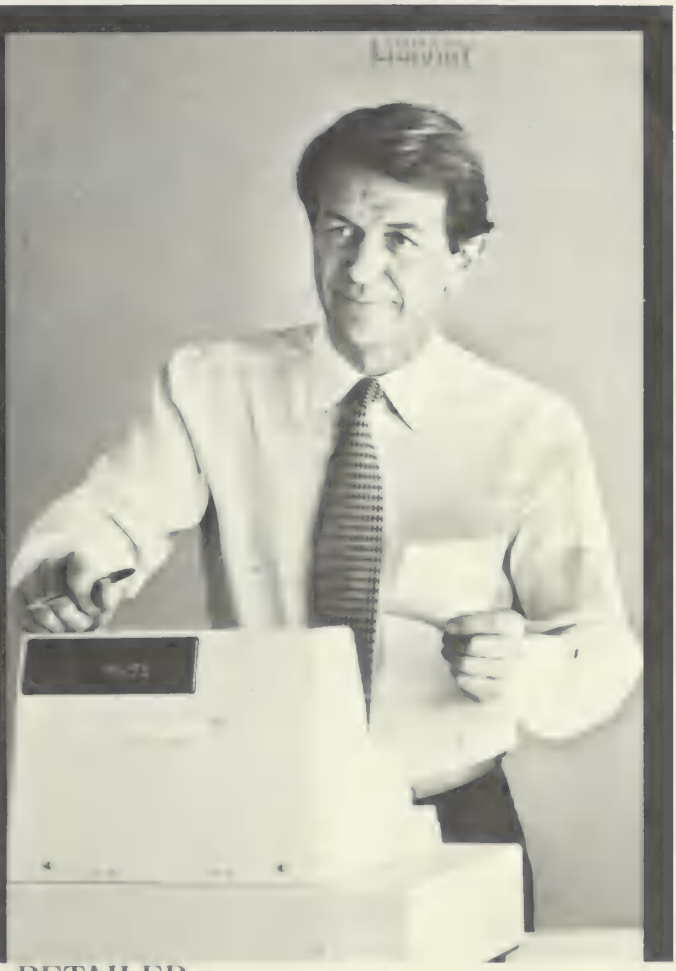

RETAILER

CAN SUNSET'S SECOND DUAL AUDIENCE HELP YOU SELL THE WEST?

Of course, you recognize SUNSET as a dual audience magazine...read by *both* men and women.

But we wonder if you fully recognize and value our *second* dual audience: Western retailers and their families.

It's this double "dual audience"—consumers plus retailers—that combines consumer impact and trade influence to deliver:

- Push-pull marketing impact in a single Western media buy.
- Efficient use of advertising dollars in the West.
- Better results for your product or service from sales force to retailer to Western shoppers.

And Westerners *do* buy. The West tends to be more buoyant in good times...more resilient when the going gets tough. SUNSET delivers the best of this Western market. SUNSET's 5.2 million readers have a median household income 25% higher than the Western median. In fact, according to a 1979 SMRB ranking of 30 upscale dual-audience magazines, SUNSET is #1 in reach against Westerners over 35 with $50,000-plus incomes.

SUNSET's readers are energetic, experimental Westerners who get actively involved with our *how-to, where-to editorial* and *what-to-do-it-with advertising*. If you've worked with SUNSET, you probably know that Western retailers are some of SUNSET's most active and enthusiastic fans.

In a 1979 survey conducted by Burke Marketing Research, key Western grocery buyers and their families preferred SUNSET for food ideas, menu planning, vacation and weekend travel, and how-do-it projects for the home. When these people were asked "in which one magazine do you pay the most attention to the advertising," the men ranked SUNSET #1 against Reader's Digest, Playboy and Sports Illustrated...and the women ranked SUNSET #1 against Good Housekeeping, Better Homes & Gardens and Family Circle.

But we also work directly with the Western trade in other ways:

- **TRADE PUBLICATIONS...REPORTING ON THE WESTERN MARKETPLACE**

  SUNSET trade publications cover grocery, travel, automotive, home furnishings, home improvement and various other retailing categories (including large and small appliances, consumer electronics and housewares). They help define sales trends, highlight marketing opportunities and report on industry activities. SUNSET's trade editors can write with SUNSET credibility because they know the Western trade as well as the magazine editors know the Western consumer.

- **RESEARCH...UNDERSTANDING THE WESTERN MARKETPLACE**

  SUNSET's research department puts a yardstick to Western insights and trends, utilizing both syndicated and self-generated data sources.

- **MERCHANDISING...PROMOTING IN THE WESTERN MARKETPLACE**

  SUNSET's merchandising staff specializes in understanding the Western market's distribution channels and knowing our advertisers' marketing needs. Combined, this enables us to design programs that make something happen—from new-product introductions to creative trade mailings to dealer incentives.

- **MENLO PARK HEADQUARTERS...MEETING IN THE WESTERN MARKETPLACE**

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Jack Henning

Vice President and General Manager

P.S. We've just updated key sections of our Western Market Almanac. If you'd like a copy, circle this paragraph and return it to me at SUNSET Magazine, Menlo Park, CA 94025.

Sunset* The Magazine of Western Living*
THE PACIFIC MONTHLY *

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The Cover Story

Softly glowing in the dusk is a remodeled small house whose crisp geometric form is emphasized by its bold white trim. The return to popularity of small houses is a growing phenomenon. Some—like this one—are surprisingly roomy inside. Cover photograph by staff photographer David Stubbs

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June travel . . . in and beyond the West

Cottonwood Lake *in Coyote Hellyer Park is where the bike path begins; here you can picnic, enjoy the swings*

GREGG MANCUSO

Lightweight *(17 pounds), brakeless racing bikes zip around velodrome (left); on 5.5-mile trail (above), equipment is slower, heavier*

Bike riding and racing in San Jose's Coyote Hellyer Park

San Jose has long been a mecca for bicycle racers, and since the '30s, it has had a velodrome—a circular racing track. The small wood tracks of the early days are gone. Now there's a ⅕-mile concrete racing track in eastern San Jose, at Coyote Hellyer Park.

Here you can sample a variety of bike-riding experiences: take a leisurely ride along a scenic path, watch racers on the velodrome, or try the track yourself.

The wide 5.5-mile bike path—one of the longest off-street paths in the city—begins at a pleasant 12-acre lake at the park's south end and heads out along Coyote Creek. Crossing only two streets (both lightly traveled), it winds through farmland and orchards and is shaded and fairly level most of the way—you don't need a 10-speed to ride it easily.

There are no facilities at the end of the path, and you go back the way you came. At the lake where the bike path begins and ends, you'll find shade trees and scattered picnic tables.

Each Saturday from 8 to 1, you can watch racers work out on the concrete velodrome, banked to 22.5°. On their brakeless, single-gear bikes they can reach speeds of up to 45 mph. It's the only velodrome in northern California, and in the next few weeks racers from all over the nation will be practicing for the Nationals to be held in San Diego at the end of the month.

As you watch from the bleachers, you'll

GLENN CHRISTIANSEN

Young pétanqueur *and staff artist Kirkman compare marks that identify each player's ball*

When French comes in handy

For some *Sunset* staff members, a foreign background is a valuable tool in reporting. For example, the *pétanque* player at right in the picture is staff artist Françoise Dudal Kirkman. She remembers first watching the sport when she was a young girl vacationing in Cannes, the famous film festival city in the Provence region of southern France.

Recently, Kirkman put her native language to use in interviewing French-speaking pétanque experts in the West, then translating their information for the article beginning on page 62. You don't, of course, have to speak French to play this game, but familiarity with the language may give you a bit of an edge. □

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see winning strategies in action: racers jam close behind a leader to lessen wind resistance, then pull out hard to sprint for the finish.

If you want to try it yourself, you can get a permit from the park office (open 8 to 4:30 daily). For adults, the fee is 50 cents daily or $5 yearly; for those under 17, it's 25 cents daily or $1 yearly. Adults or children's parents must sign a waiver. All track riders must ride counterclockwise and wear bicycle helmets. Bike-club racers have first claim on the track, but it's usually available afternoons. Be careful: you may notice that the pedals of bicycles not designed specifically for track use come perilously close to catching on the track at low speeds.

Coyote Hellyer Park is open free daily from dawn to dusk; to get there, take U.S. Highway 101 to the Hellyer Avenue exit, then follow signs to the park.

Denver salutes its cherry trees with a lively festival

In Japan, the traditional cherry blossom festivals usually take place in April. But in the high mountain air of Denver, the blossoms pop out a bit later, so the Japanese community here celebrates in June.

On June 7 and 8 in downtown Sakura Square, at the Japanese Trade and Cultural Center, you can get acquainted with ancient Japanese folk music and dance, martial arts, and the finer arts of ikebana (flower arranging) and bonsai. There will also be calligraphy exhibits, a demonstration of the traditional tea ceremony, and an array of food booths. Free tours of the Buddhist temple will be offered at 1½-hour intervals.

Festival hours are 11 to 6 both days, with performances throughout each day. Sakura Square is bounded by 19th and 20th streets and Lawrence and Larimer streets. Parking is usually easy.

More whitewater rafters

Whitewater rafting continues to grow in popularity; since our last listing (page 88 of the April *Sunset*), we've discovered a few more commercial operators who run California rivers.

Adventure Odyssey, Inc., 4 Edgehill Way, San Rafael, Calif. 94903; (415) 499-1111. American, Klamath rivers. Can arrange carpooling. One to five days, $50 a day.

D.A.R.E. River Trips, Box 1497, Santa Barbara 93102; (805) 682-2732. American, East Carson, Klamath. Offers photo and gourmet trips; can arrange carpooling. Two days, $111; three days, $160.

Klamath River Outfitters, Box 1077, Happy Camp, Calif. 96039; (916) 493-2847, 493-2976. Klamath. Can arrange shuttles, charters, special interest trips. One day, $35; to five days, $309.

River Mountain Action, 5916 W. 77th Place, Los Angeles 90045; (213) 645-8855.

You think you're confused about what kind of car to buy? That's nothing. Most car makers don't even know what kind of car to build.

Saab engineers read the same news reports that other car engineers around the world do.

Their reactions to the news, however, have been quite different.

Where other companies indecisively present you with an assortment of various automobiles and let you decide what you're willing to give up—room, performance, economy and so on—Saab engineers have ingeniously built the entire assortment into a single basic car.

This is no small accomplishment. Despite the times, in effect, buying a Saab allows you to buy a new car without forgoing a thing.

It's not claustrophobic.

Give or take a centimeter or so here and there, the exterior of the Saab 900 is the same size as the Audi 4000 and 5000, the Volvo DL and GLE, the BMW 320i and 528i and the Mercedes 280E.

Inside, however, the Saab is bigger than all of them.

By EPA measurements, in fact, the Saab is a mid-sized car. While the others are all compacts.

It's not boring.

From 60 to 0, in separate road tests conducted by *Road & Track* magazine during '78 and '79, the Saab 900 Turbo stopped quicker than, among other cars, two Audis, two Jaguars, five BMWs, a Ferrari, a Maserati, a Mercedes and a Volvo.

And going was no less spectacular.

Through the *R&T* slalom course, the Saab 900 Turbo—a four-cylinder, front-wheel drive car, mind you—was timed faster than three Mercedes, four BMWs, two Ferraris, two Jaguars and a couple of Porsches, including the 928.

It's not just a sedan.

The Saab 900 has a trunk equal to those in the largest sedans available today.

Yet for those few times every year when you wish your sedan was a station wagon, the Saab accommodates you.

Fold the rear seat forward, lift the rear hatchback and the Saab presents a station wagon-like cargo space over six feet long and 53 cubic feet big.

It's not small. It is economical.

The Saab 900 is a comfortable *mid-sized* car that's economical.

The Saab 900 EMS, for example, gets 21 EPA estimated mpg and 30 estimated highway mpg.

Better than many compacts. And nearly as good as some of the miniatures.

(Remember, use estimated mpg for comparison only. Mileage varies with speed, trip length and weather. Actual highway mileage will probably be less.)

It's not confusing, is it?

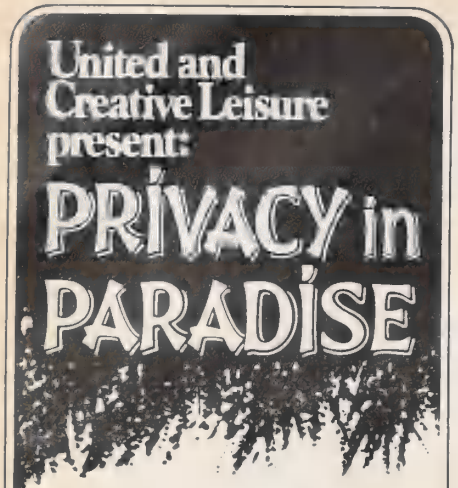
As well prepared as you may be in these times to accept less in a car, the Saab 900 makes accepting less than everything unnecessary.

Small wonder, then, why the experts at *Car and Driver* magazine have labeled it "... the target at which to aim the sedan of tomorrow."

And why a test drive will convince you.

SAAB

The most intelligent car ever built.



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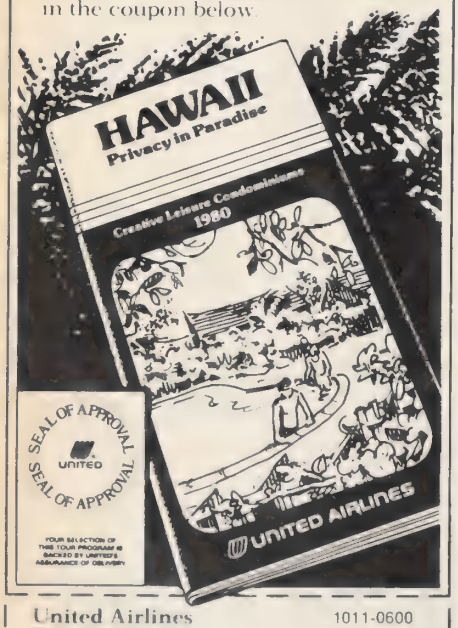

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Sierra Whitewater Expeditions, Box 2273, Placerville, Calif. 95667; (916) 626-4254. American, Klamath, Salmon (California). One day $35, two days, $80 to $160.

Vic McLean's Wild River Tours. See page 88 of the April *Sunset;* correct telephone number is (916) 626-5042.

World of Whitewater, Box 708, Big Bar, Calif. 96010; (916) 623-6588, 623-4110. Klamath, Trinity. One day, $25 to $35.

Whitewater Expeditions & Tours, Box 160024, Sacramento 95816; (916) 446-3058. American, Klamath. One day, $40; to six days, $275.

New Parcourse in San Francisco

For joggers who want to break up their run with a bit of exercising, a fitness course is just the thing. Typically, some 18 exercise stations scattered around a 1- to 2-mile course suggest such diversions as log hopping, chinning, and balance beam walking. You exercise at your own pace; a sign at each station gives recommended "par" for beginner, intermediate, and advanced levels of fitness.

Now there's a workout circuit at the west end of Golden Gate Park, on dirt paths around the Polo Field (one lap of the course calls for 1¼ miles of walking and jogging). It joins four others in the city: Marina Green, Mountain Lake Park, Lake Merced, and Embarcadero Center. □

GREGG MANCUSO

At new fitness course *in Golden Gate Park, you jog a bit, exercise a bit, for all-over exertion*

For travel planners, a June 1980 check list

Books on Britain. A New York bookstore carries books produced or distributed by the British Tourist Authority, as well as other publications for the Britain-bound traveler (or gift shopper). They are mailed upon receipt of a check. For the leaflet *Essential Guides for the Visitor to Britain,* write to The British Travel Bookshop Ltd., 680 Fifth Ave., New York 10019; (212) 765-0898.

For 13- to 17-year-olds. Bicycle, hike, and camp for two to six weeks in the United States, Canada, or Europe. Groups of 10, with two leaders, cycle 25 to 40 miles or hike 6 to 12 miles daily; market and cook; sleep in hostels, mountain huts, or tents. Prices are from $495 for two weeks in Vermont to $1,860 for six weeks in Switzerland and France, including air fare to Europe. Cost covers bicycle-touring accessories such as saddlebags and headgear (yours to keep), meals, lodging, insurance. Write to Student Hosteling Program of New England, Inc., Maple Hill, Rochester, Vt. 05767; (802) 767-3279.

Adult ecology camps. One- and two-week camp sessions in Wyoming, Maine, Wisconsin, and Connecticut feature trained naturalists (college credit optional). Prices average $220 per week, which includes lodging and home-cooked meals. Write to Anne Phelps, National Audubon Society, 950 Third Ave., New York 10022; (212) 832-3200.

California river cruising. A new series of two- to five-day cruises on the quiet San Joaquin/Sacramento river delta is planned for September and October. Example: two-day cruises will leave Sacramento every Thursday, September 11 through October 30, on a 65-foot motor vessel; you overnight in a Stockton hotel, then return over different waterways to Sacramento. Cost: $80 per person, including double-occupancy hotel room; meals are extra. For a folder on these cruises, see your travel agent or write to Delta Travel Agency, 1540 W. Capitol Ave., West Sacramento 95691.

Outback in Western Australia. Escorted 22-day tour starting October 11 takes a group of 20 travelers to remote areas. Land cost from Perth of $3,750 includes overnight stays in luxurious hotels, simple inns, tents, and a huge sheep ranch. See your travel agent or write to Hanns Ebensten Travel, Inc., 55 W. 42nd St., New York 10036. □

What a travel agent can do for you: Provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

Sunset School & Camp Directory

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• Option of first 4 weeks in Monterey, last two weeks in Hawaii, or entire 6 week program

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For full details write or call: **Director, Summer Programs, Santa Catalina School, Mark Thomas Dr., Monterey, CA 93940, 408/649-1432**

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BOYS & GIRLS AGE 9–17

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- Horseback riding, Tennis, Hiking, Swimming . . .
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INDEX OF DIRECTORIES • School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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Western Grocery Dir.	p. 144	**Shopping Center**	p. 213

Camps

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GIRLS 8-12 TEENS 13-16 LADIES 17-29

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staff applicants must write

- **Camp Colang**, Poconos, Pennsylvania
- **Camp Avon**, Avon, Connecticut
- **Camp Pomona**, Pomona, California
- **Camp Boone**, Boone, North Carolina
- **Camp Lakeland**, Sheboygan, Wisconsin
- **Camp Haverford (Girls Only)**, Haverford, Pa.

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Now Available **Adult Summer Camps at Separate Locations Write for "Adult" Brochure**

Sunset School & Camp Directory

Camps

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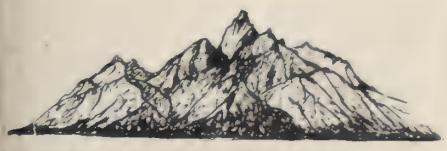

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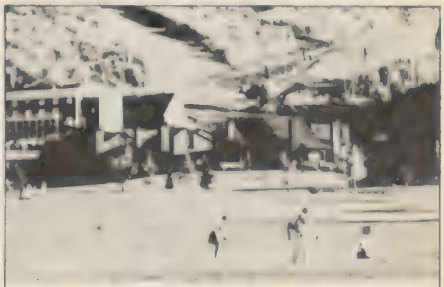

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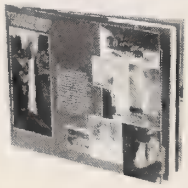

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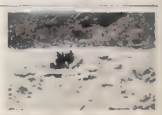

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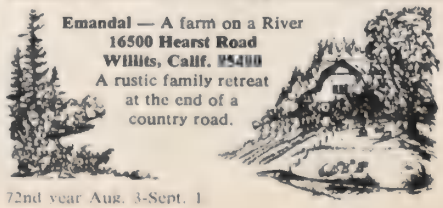

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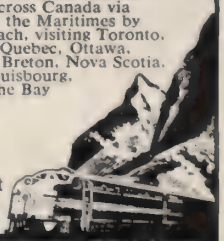

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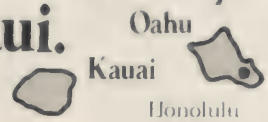

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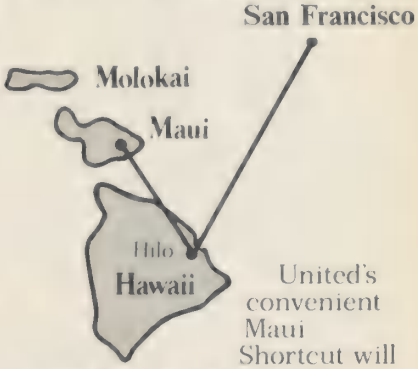

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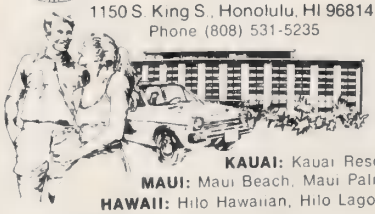

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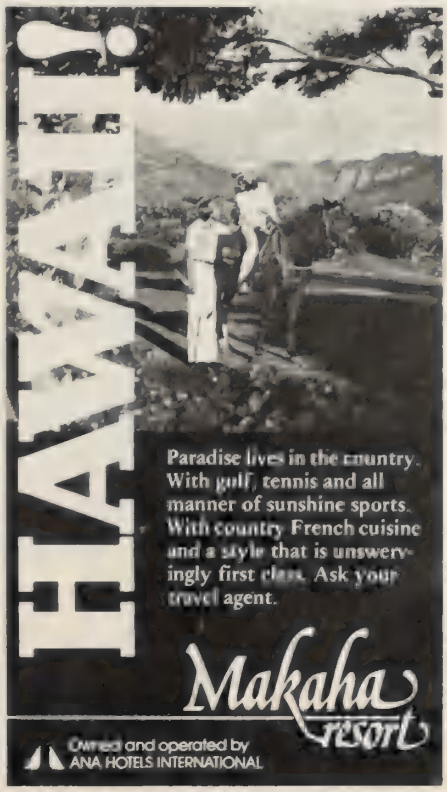

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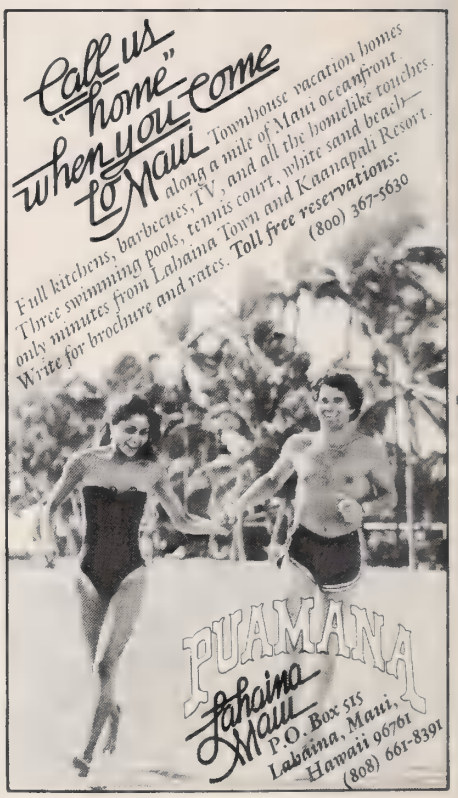

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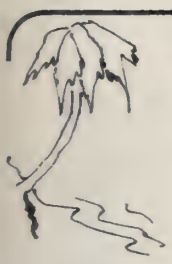

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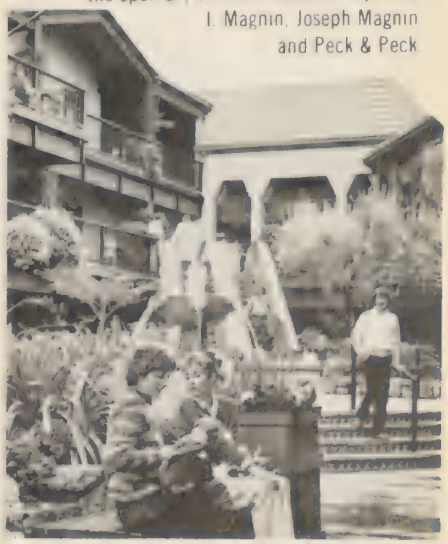

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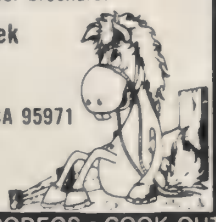

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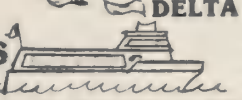

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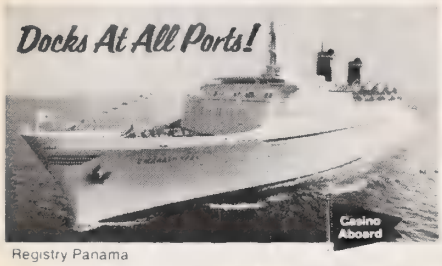

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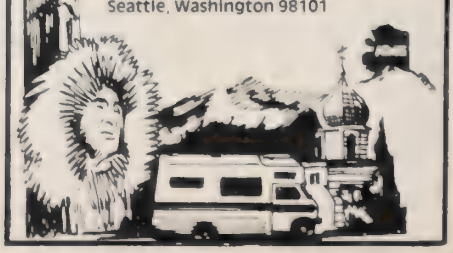

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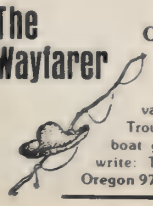

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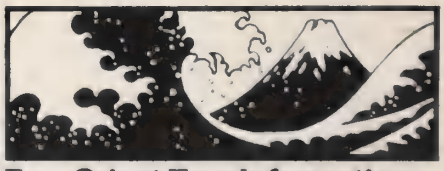

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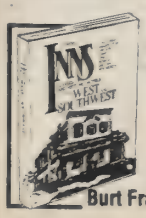

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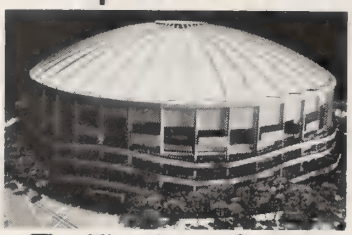

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Hawk soaring *over Fremont Peak park captures attention of observers far below*

Fremont Peak . . . atop the Gabilans

"For such a small park, it seems to inspire fine memories." Ranger Kathryn Foley speaks fondly of 244-acre Fremont Peak State Park, an 11-mile drive south of San Juan Bautista, California, via U.S. 101. This park on a 3,169-foot-high promontory—the very top of the Gabilan Range—may inspire you.

Certainly (on a clear day), you will be treated to superb views: the Salinas Valley stretching to the horizon, Monterey Bay lapping at Moss Landing beach, and miles of rolling San Benito County ranchland.

Easily included in a one-day excursion from the San Francisco Bay Area to historic San Juan Bautista, the park is popular with picnickers and would-be mountaineers. Most visitors have little trouble climbing to the summit. Overnighters can camp in normally uncrowded sites. And this is an observation spot much favored by Bay Area astronomers, who come to gaze at celestial sights unimpaired by smog or the glow of city lights.

Wind, wildflowers, bigcone pines. The summit is a 15-minute hike from the

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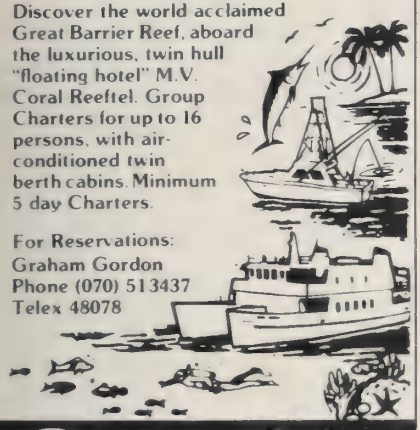

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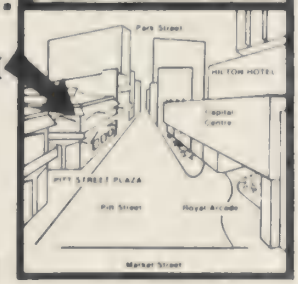

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Big-needled native *of Fremont Peak State Park is bigcone or Coulter pine*

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Next time you and your family are driving along Interstate 5 between Portland and Seattle, take exit 103. And see what's brewing in Tumwater.

The Olympia Brewery Tour

parking area. Wear sturdy shoes and a jacket—even in June, this wind-lashed peak can be chilly. March through early July is the best time to visit.

Along park nature trails this month, you'll find some late-blooming wildflowers. One California native here is the Coulter pine, with its big cones and impressively long needles. These pines share the park's upper ridges with bright-barked madrone and big oaks. Watch out for poison oak if you stray off trails, and don't step in one of the holes bored by Beechey ground squirrels.

The park is open for day use from 8 A.M. to sunset ($2 per vehicle). A few primitive campsites (water, but no hookups) are available on a first-come basis at $3 a night. There are tables for picnicking. Open fires are not permitted from about June 1 through autumn.

San Juan Bautista is 3 miles off U.S. 101; exit east from 101 onto State Highway 156. When you've finished strolling around town, drive along Third Street (Alameda) across State 156. Jog left, after about a third of a mile, onto San Juan Canyon Road (County G1). A yellow sign soon advises: "Narrow Winding Road Next 11 Miles." If you can't see the peak through fog or rain, postpone your visit. □

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Kapalua Bay Hotel
Maui

Sandy crescent *of Brennecke Beach is bounded by rocky points on both ends*

Spreading palms *shade picnic tables at Poipu Beach County Park*

Poipu beaches... Kauai's sheltered side

Compact but surprisingly varied, the string of sandy coves and bays that make up the Poipu Beach area offers a wide choice of recreation on Kauai's sheltered south shore. You can enjoy excellent swimming, surfing, snorkeling, sailing, and fishing—along with dependably pleasant weather through most of the year.

Covering barely a mile of coast, Poipu's shoreline can be walked from one end to the other in half an hour or less. Each small crescent of beach is separated from the next by rocky lava fingers pointing into the sea. At several swimming beaches, small offshore reefs provide further protection.

You can watch or sample a number of activities as you stroll. On one beach, bodysurfing might be the main pursuit; on the next, it's snorkeling, swimming, or fishing. Accomplished surfboarders paddle out beyond the reefs to challenge big waves.

Some of the shoreline is occupied by hotels, but the beach itself is public; access is provided by footpaths or roads through the hotel grounds. (Several hotels rent surfing and snorkeling gear.)

Here's a brief roundup of Poipu beaches, beginning on the east side:

Brennecke Beach is small—about ⅓ acre with 250 feet of waterfront—but it offers some of the best bodysurfing on Kauai. Here an experienced bodysurfer can catch one of the waves rolling steadily in from the Pacific and ride it far up onto the shore (a soft bellyboard, made of foam, helps extend the glide). In summer, expert surfers ride breakers reaching 6 to 8 feet high. Even in winter, when wave heights drop to 3 or 4 feet, this is no place for novices to learn the sport. Other stretches of beach nearby are more suitable for beginners. There's a life-

MYSTERIOUS TIKAL

Deep in the Guatemalan jungle lies the ancient city of Tikal, whose very existence baffles archaeologists. Why the Mayans picked that remote location to build a city, how they built it, and why they abandoned it during its height of splendor, are just a few of the questions surrounding this unique place. It's only within the last 30 years that access through the jungle has enabled scientific exploration of 2500-year-old Tikal. And it remains one of the most beautiful untouched wonders in the world.

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GLENN CHRISTIANSEN

Arms outstretched, *bodysurfer catches a wave at Brennecke Beach*

guard station at Brennecke, but there are no developed facilities.

To the west, beyond a few private homes, is Poipu Beach County Park, with another 100 yards of waterfront and its own lifeguard. This is a safe swimming area—a favorite spot for local residents with young children. Facilities within the nearly 4 acres of park are picnic tables, a volleyball net, showers, rest rooms, and four lighted pavilions (to reserve one, telephone the parks department at 808/245-8821).

Bounding the park on the west is sandy Nu Kumoi Point, where fishermen cast nets for a variety of edible reef fish.

Farther west is the old Waiohai Hotel, which is closed. A new hotel is being built here; it should open in 1981. The beachfront remains open, offering gentle waves suitable for beginning bodysurfers and swimmers.

Snorkeling is the favored pastime on the next stretch of shoreline, which fronts the Poipu Beach Hotel (presently being remodeled). The hotel rents snorkeling and surfing gear, or you can arrange a diving charter.

Next door is Kiahuna Beach Resort, with splendid bodysurfing and swimming. (Rental gear is for guests only.) Surfboarders can be seen heading out for bigger waves offshore.

The Sheraton Kauai overlooks the last bit of beach, which is patronized mainly by swimmers, bodysurfers, and a few snorkelers. Snorkeling and surfing equipment can be rented here.

Rocky points dividing the coves offer good fishing. Bring your own tackle; ask local anglers what fish are hitting.

To reach Poipu from the airport near Lihue, drive west about 10 miles on State Highway 50 to State 52 (Maluhia Road). Turn south and continue about 5 miles to Koloa Road, where you head west briefly, then south onto Poipu Road. Continue southeast about 2 miles to the hotels, beaches, and parks. □

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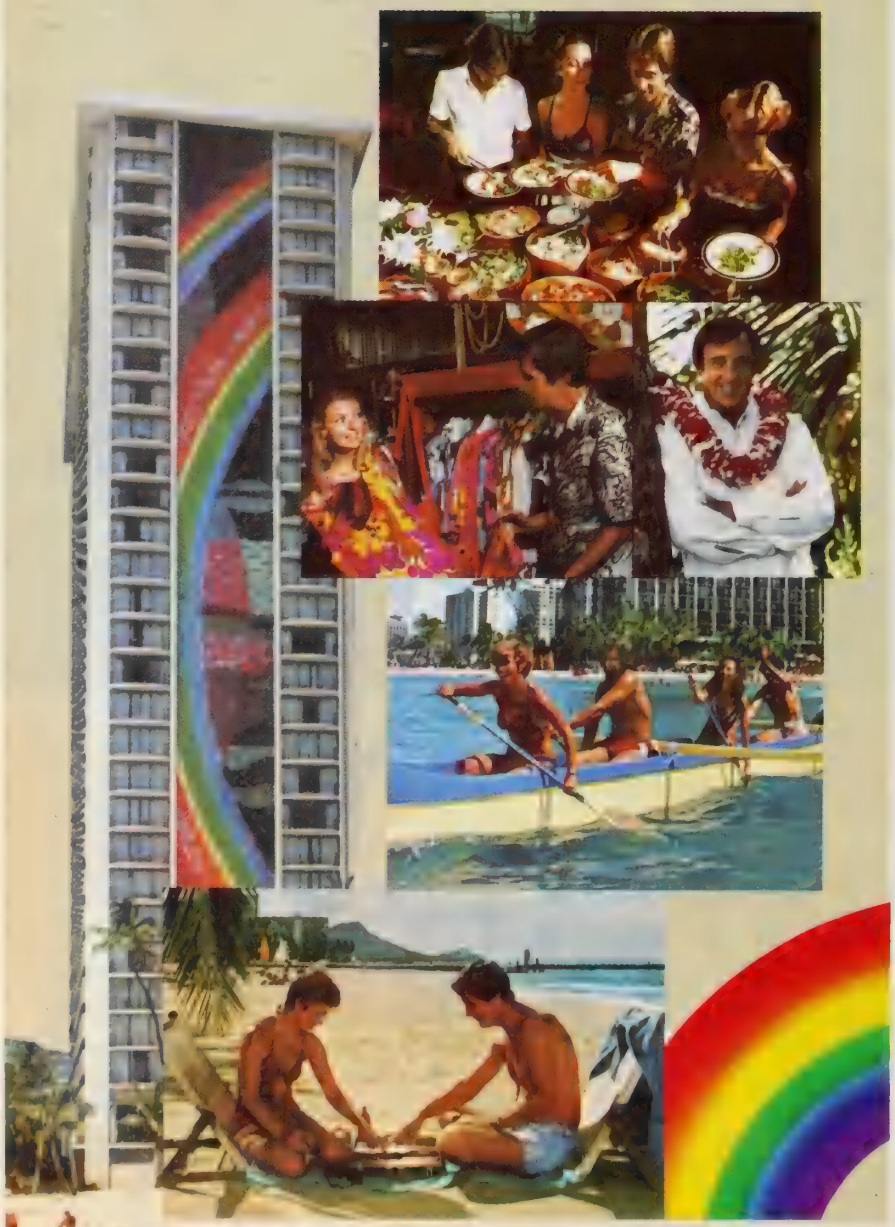

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Taking the bus to Sierra hikes

For a backpacker, driving to the trailhead and back can be a series of aggravations: enduring mountain roads that strain both car and driver, getting gasoline, finding safe parking at road's end, and having to hike out to the starting point. Now a new enterprise called the High Sierra Stage offers an alternative—bus service to major Sierra trailheads.

You can reserve a seat on a 15-passenger minibus from Visalia (36 miles southeast of Fresno, California) to the following destinations:

Sequoia and Kings Canyon national parks. On Monday, Thursday, and Saturday, the bus will travel to Giant Forest, Grant Grove, and Cedar Grove. One-way fare is $10 to $15.

Mineral King. On Sunday and Friday, the bus will go to Mineral King. One-way fare is $12.

Eastern Sierra. Leaving Visalia on Tuesday and returning Wednesday, the bus will stop at Whitney Portal, Onion Valley, Glacier Lodge, and Lake Sabrina. One-way fare is $35 to $50.

Additional runs to such areas as Quaking Aspen (Sequoia National Forest) or Lake Edison (Sierra National Forest) will be scheduled on request. In winter, skiers can ride to cross-country and downhill areas in the southern Sierra.

Paid reservations are required to assure service. If bookings are insufficient, a trip may be canceled up to 36 hours before departure, so be sure to call ahead before leaving home. However, the company will honor all confirmed reservations for pickup at your trip's end.

If you like, you can ride to one trailhead and be picked up at another. You must make your own arrangements for wilderness permits and trailhead reservations where entry is limited; check first on the bus route to be sure you can pick up your permits at a ranger station along the way.

Groups of three or more and children under 13 can ride at a discounted rate. For an extra $1 to $3 per passenger, the bus will meet you at the Amtrak station in Hanford, the Visalia airport (served by Inland Empire Airlines from San Francisco and Los Angeles), or the Goshen or Visalia bus depot. Free street parking in Visalia is available for those who drive; more secure parking can be arranged for $2 a day.

For reservations and a schedule of High Sierra Stage runs, write or call The Rucksack, 1043 S. Mooney Blvd., Visalia, Calif. 93277; (209) 732-4404. □

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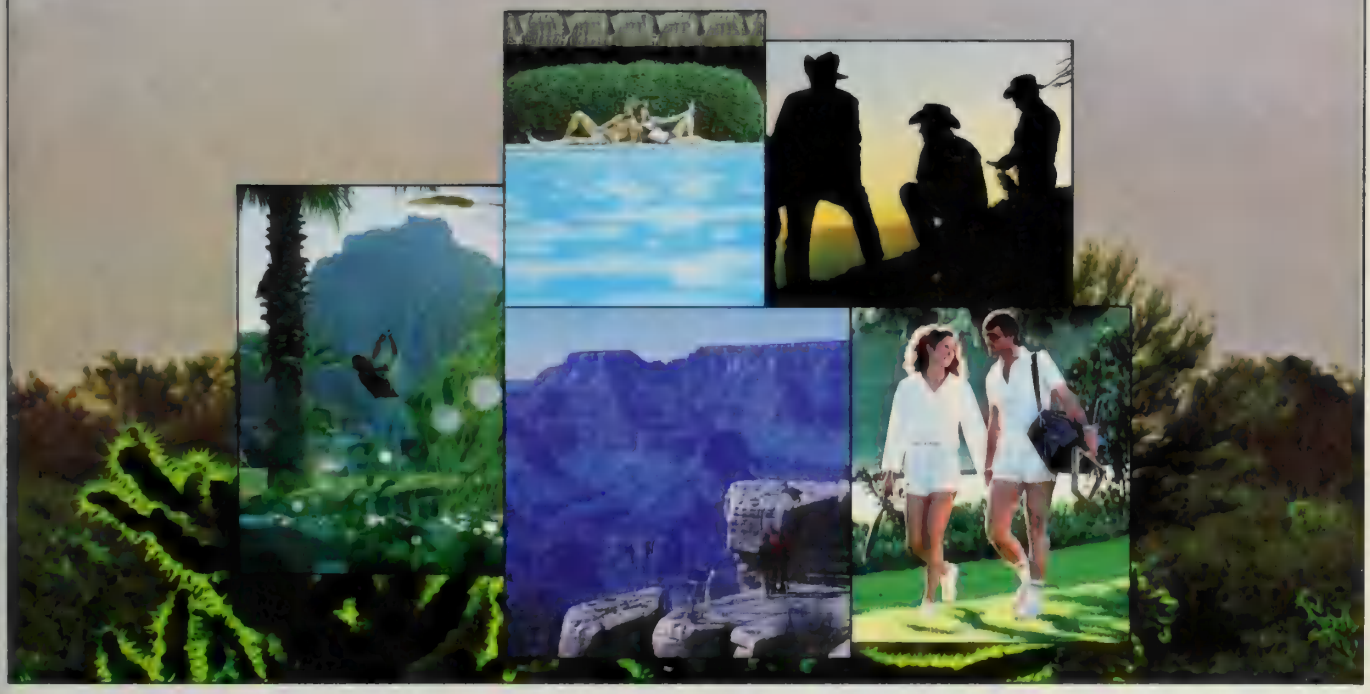

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DAVID STUBBS

Fish-catching cat *and other animals look scruffy here but they'll have a fresh paint job when carousel reopens this month*

Ups and downs of SF Zoo's carousel

NORMAN A. PLATE

This wood rabbit *has over 50 carved pieces. Each animal took five days to restore*

The menagerie of colorful animals prancing in an unending circle in the San Francisco Zoo's carousel house has entertained children since its opening here in 1924.

Produced by the William Dentzel Company, the merry-go-round is prized for its 52 hand-carved animals—leaping deer, bejeweled boars, and other imaginative beasts, as well as the traditional jumping horses. But in recent years, the carousel had fallen into disrepair. The Zoological Society organized a fund-raising drive for its restoration, and work began early this year.

This month the carousel reopens, its machinery overhauled, its animals painstakingly repaired and repainted. The first week, June 1 to 8, is Carousel Week when rides will cost 5 cents (at some Bay Area Schools, students received free ride tickets good for this month), and there'll be a booth selling tote bags and other small items depicting the carousel.

As you ride, look for some of the details that distinguish Dentzel's work—a high saddle cantle ending in a carved eagle's head; flowing, curved manes on the horses; and on the lion, a trademark clown next to the saddle.

The carousel is open noon to 5 daily, and the 3-minute ride costs 50 cents. Zoo hours are 10 to 5 daily; admission is $2 for adults, free for children under 15 when accompanied by an adult. The zoo is at 45th Avenue and Sloat Boulevard and is served by the L streetcar from downtown and the #18 Sloat bus. □

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Door of 1940 Jotul #118

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Like an ancient viaduct, *the Rogue River Bridge (number 1 on map) connects the towns of Gold Beach and Wedderburn in classic fashion. Note the arches-on-arches design*

STUART GOFORTH

Spanning *Cape Cre this bridge supports roadb on two tiers Roman arches. distance Hecata He*

Depoe Bay Bridge *(12), built in 1927, was the setting for the fishing scene in the movie One Flew Over The Cuckoo's Nest*

Typical handrail *shows stepped design on spindles. Moss and years of rugged weather give concrete rare character. Rail is on Neahkahnie Creek Bridge (15)*

Along the Oregon coast, treats for bridge watchers

Grand and graceful bridges were built along Oregon's coast during the 1920s and '30s. Rather than flatten and excavate, road builders of that period erected bridges designed to fit into the natural landscape. The results are a form of outdoor industrial sculpture.

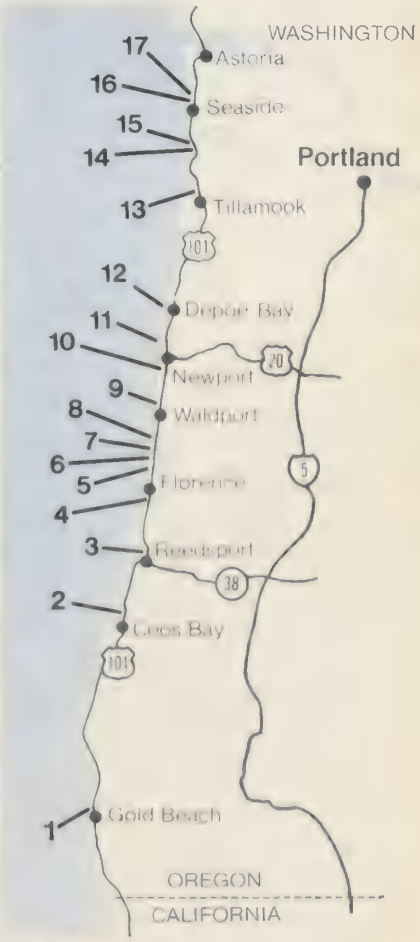
On a two-day motor trip you can see 17 bridges—and have a comfortably unhurried look at Oregon's splendid coast.

As you travel, look for details and embellishments on these mainly concrete bridges. The detailing serves no structural purpose, but is there "for art's sake." Much of it is in the art deco style so popular in the late '20s and '30s; you'll find evidence of it in stylized, Egyptian-derived plant motifs, sunbursts, and stepped structural patterns. If you walk the bridges, you'll have an even better

Skeletal steel arch *stretches between immense stylized concrete pylons on Newport's Yaquina Bay Bridge (10). View is from north bank*

GLENN CHRISTIANSEN

Cars needn't worry, *but tall trucks must take careful aim to clear cross support on Wilson River Bridge (13)*



Here's where *you'll find the 17 bridges we describe. A detour from Interstate 5 via State 38 and U.S. 20 leads to eight of them*

look at such touches.

We list the bridges as you'd come across them, driving south to north on U.S. Highway 101.

If you choose not to make the entire 363-mile drive along 101, you can still see eight of the bridges (numbers 3 through 10) on a 70-mile stretch of coast between Reedsport and Newport: from Interstate 5, take State Highway 38 west to Reedsport; from Newport, return east

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STUART COFORTH

Drawspan *on Siuslaw River Bridge (4) is supported by seemingly out-of-scale sculptural pylons. Gothic arches support approaching twin arch spans*

to I-5 on U.S. Highway 20, which takes you through Corvallis.

1. **Rogue River Bridge** seems like something from a lost civilization if you're viewing it from the end of the tacky Gold Beach strip. This great concrete structure steps the ⅜ mile across the river in seven graceful arches; smaller arches perch over these, directly beneath the roadbed. Watch for such art deco details as the sunburst designs on the entrance pylons.

Our photograph is from the north bank of the river; to reach this vantage, turn right immediately after crossing the bridge from the south.

2. **Coos Bay Bridge** offers its best view as you're moving across it. Approaching the main span, you feel as if you're entering a covered space; the bridge looks as if it doesn't end. Note the stepped, deco-style spires at the entrance to the all-steel span. The structure below the roadbed gently repeats the superstructure pattern.

3. **Umpqua River Bridge** has graceful pairs of weathered stone arches at either side of a hard-working steel center arch. This arch balances on a center post and pivots to let ocean-going ships in and out of the harbor 11 miles from the river mouth. Detailing on the moss-flecked rails makes this a good bridge to walk across, though it can be a bit unnerving when large passing rigs cause the center span to shake.

4. **Siuslaw River Bridge** (pronounce it sy-*use*-law) stands at the south end of Florence. What you'll probably notice first is the intricate iron latticework on the entry posts—and a sign announcing that the bridge's drawspan is opened by appointment only. Also note the wing designs at the tops of the arches. Gothic-arched piers support the roadbed, and massive pylons that look like castle parapets support the drawspan. You can get a good view of this bridge from Bay Street and some shops and restaurants nearby.

5. **Cape Creek Bridge** shows you only its roadbed and a rosette-patterned rail as you emerge from the tunnel just south of it. But from Devils Elbow State Park, north of the bridge, you can see the whole structure—looking much like an ancient aqueduct, with its two tiers of Roman arches. At the park you can walk on the beach and visit Hecata Head lighthouse.

6, 7, and 13. **Big Creek Bridge, Ten Mile Creek Bridge, and Wilson River Bridge** have the same design—a massive, single-arched span with huge crossties between the two sides of the arch. Each has a powerful symmetry.

8. **Cummins Creek Bridge** could go by you if you blink. But stop at Neptune State Park, at the south end of the bridge, and you'll see how beautifully this structure fits in with its surroundings, as in a Chinese landscape painting. The huge piles of driftwood that litter the beach here suggest the storms this structure has seen.

9. **Alsea Bay Bridge,** near Waldport, is one of the largest on Oregon's coast. Its all-concrete construction is well weathered, giving this bridge a subtle appeal.

Great tidal changes create interesting patterns in the mudflats below the bridge; you may see them as you walk across.

10. **Yaquina Bay Bridge** at Newport looks more streamlined than the others and is also probably busier. Though dominated by a sleek steel arch, the design elements of its day still sneak in: the sentry stones at the entrance to the span look like migrated replicas of Manhattan skyscrapers. You'll see stone stairways at both ends of the bridge; at the north, the stairs curve down to Yaquina Bay State Park, where you can visit a lighthouse built in 1871.

11. **Benjamin Jones Bridge** is down the hill from the new highway, so take the Otter Crest Loop exit to reach it. Stony-looking weathered concrete arches rise over the single span's arch to hold the beaten roadbed. Still smaller arches, similarly proportioned, perforate the bridge's rail. In most seasons, a waterfall tumbles down the hillside and passes beneath the bridge.

12. **Depoe Bay Bridge,** which spans the inlet of "the world's smallest harbor" in a single arch, is set right into the rock at either side of it. A walkway under the bridge's north end allows a close look at the support structure; in the concrete here you can see impressions of wood grain from the original wooden forms. The unique harbor, where you can see fishing boats make the perilous passage into protected moorage, makes this bridge more of a tourist attraction than the others, and there's likely to be a crowd.

13. **Wilson River Bridge** *is described in 6.*

14. **Nehalem River Bridge** at Wheeler, best seen approached from the south, is the oldest on the coast. It balances on a center pier and can swing around to admit boats. The approach trestles still have their original timbers, and railings also are of wood.

15. **Neahkahnie Creek Bridge,** south of Cannon Beach, is a narrow concrete curve with a steel understructure. It carries you almost 100 feet above the creek; you'll see the tops of some very tall trees level with the road.

16, 17. **Necanicum River and Neawanna Creek bridges** are both all-concrete spans near Seaside. Their ornate handrails reward a close look. □

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You'll find tabis at fishing supply stores in Honolulu and in some mainland stores in Oriental communities. □

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DON NORMARK

Arms are raised *in dance while costumed parish children file out to join celebration during Old Town's fiesta, a tradition for 274 years*

Livelier than ever . . . Albuquerque Old Town

Stubby cannons *were left behind by Confederate soldiers in 1862*

The 10 adobe-filled blocks of Albuquerque's Old Town have long been the city's major tourist attraction, popular for shopping, dining, or just strolling about. Odd-shaped blocks, a gaslit park-like plaza, and the proud burnt orange San Felipe de Neri Church—all near the sites where Spanish pioneers built them in 1706—give this district timeless appeal.

Now three major changes revitalizing Old Town invite a new look—not just from visitors, but from residents too.

The biggest addition is the $4 million, solar-heated Albuquerque Museum of Art, History, and Science, which opened last August at 2000 Mountain Road N.W. An important cultural anchor for Old Town's northeast corner, it promises a wide range of exhibits, as reflected by current shows: *Katachi: Form and Spirit in Japanese Art* (through June 8); and *New Town and the Railroad Boom Years, 1880 to 1912,* commemorating the centennial of the railroad's arrival here (all summer). The museum also

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SIX FLAGS MAGIC MOUNTAIN

Palm-size storyteller *and Indian pots are on display at Andrews Pueblo Pottery*

DON NORMARK

She gets a sweet *from Alyce Kimmel's, where candy is made on the premises*

JONATHAN A. MEYE

Wall art *is backdrop for lunch at Joseph's Table, run by a nun and her students*

offers a good introduction to its historic neighborhood through displays, tours, and publications.

Another project underway is a $1 million pedestrian and traffic corridor along Lomas Boulevard, which is being landscaped and redesigned—the city's effort to connect Old Town with Albuquerque's downtown, a mile and a half east.

And within Old Town itself, an art and craft renaissance is occurring. Nearly a dozen new galleries and craft cooperatives—some of them very impressive—have opened in the past two years, making the area a tempting stop for any serious collector.

Getting oriented: a fiesta, tours, guides

Old Town is a complex place, home to at least 200 residents and spiritual heart for Albuquerque's Hispanic community, as well as a commercial center.

The church, rebuilt after the first church collapsed in 1790, has probably missed neither a Sunday service nor its June San Felipe Fiesta since it was dedicated 70 years before the American Revolution. On June 6, 7, and 8, the parish once again will bring a carnival, food and craft booths, dancing, and music to the plaza. Hours are 6 P.M. to midnight Friday; noon to night Saturday and Sunday. Highlights include crowning a fiesta queen at 8 Saturday and a religious procession at 3 Sunday.

Architecturally, Old Town is a jumble. A photograph and sketch display at the Albuquerque Museum shows the variety of Territorial and Victorian buildings existing until the mid-1950s. Then, builders tried to replace the Victorian with a Pueblo Revival style, causing so much damage that only the blocks surrounding the plaza are included in Old Town's nomination to the National Register of Historic Places.

Best aids to learning the area's history and architecture are free 1-hour walking tours beginning at the museum Wednesdays at 11, Fridays at 1:30, Saturdays and Sundays at 1:30 and 3. Sign up at the museum on the day of a tour (each is limited to 25). Or, at the museum, get a free walking tour brochure or a book just published by the museum: *Old Town: A Guide to Its History and Architecture,* by Byron A. Johnson ($5.95).

Free maps locating most Old Town galleries, shops, and restaurants are available across Romero Street from the plaza at an information booth, ope daily 9 to 5.

Nearby, the Tenderfoot Express, a trai on tires operated by the parks depar ment, begins free orientation tours ever 45 minutes between 9 and 3:30 on sum mer weekdays.

A diverse place to shop and dine

For most visitors, shopping and dinin are the main draw. Hidden in secluded plazas and off jigsaw walkways, as wel as lining the main streets, are more than 100 shops and galleries offering every thing from genuine treasures to touristy kitsch. You'll find excellent work by New Mexico's Indian, Hispanic, and Anglo artists, plus boutique clothes, leather goods, books, jewelry, piñatas, and culinary equipment. Shop owners are hospitable, and there's a relaxed air.

These are some of the galleries to seek out, new in the past two years:

Adobe Gallery, 413 Romero Street N.W., offers Indian crafts. Special show devoted to 200 storytellers from 12 different New Mexico pueblos will remain until June 15. Hours are 10 to 6 daily.

The Aldridge Fine Art Gallery, 104 Romero Street N.W., features paintings, sculpture, ceramics. Hours are 10 to 5 and

L. A. MITCHELL

Trolley announces new museum, *lined with solar panels. Inside, space accommodates art show (above) and rail exhibit now on display*

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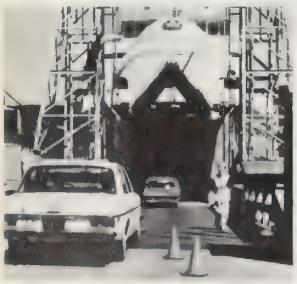

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Amapola Gallery, 2047 S. Plaza, sells paintings, ceramics, and textiles by 30 artists. The six-room gallery is staffed by the artists. Hours are 10 to 5 daily, plus some evenings.

Andrews Pueblo Pottery, 400 San Felipe Street N.W., offers a superb collection of pottery from every New Mexico pueblo. Owners help point out their differences, what to look for. Hours are 9 to 5 daily.

Federico Armijo Showroom, 400 Rio Grande Boulevard N.W., looks more like a New York than a New Mexico gallery. It displays pieces of furniture that double as works of art and sculptures in bronze, stone, fabric. Hours are 1 to 5 Tuesday to Saturday, or by appointment.

Moonstone Gallery, #4, 323 Romero Street N.W., presents the work of four native Albuquerque artists who can be seen working and exhibiting in oils, acrylics, water colors, and photography. Hours are 9 to 9 daily.

Navajo Gallery, #1, 323 Romero Street N.W., is a showcase for owner R. C. Gorman of Taos, focusing on his lithographs ($500 to $2,000), sculpture, and paintings. Six other artists also exhibit here. Hours are 10 to 6 daily.

Textiles and Crafts Cooperative, #3, 323 Romero Street N.W., presents 30 traditional and contemporary craftsmen who sell pottery, pillows, wall hangings, clothing, and even hand-spun, hand-dyed wool by the hank. Hours are 10 to 6 daily.

Wildline Galleries, 903 Rio Grande Boulevard N.W., features contemporary paintings and sculpture by Southwest artists. Hours are 11 to 5:30 Tuesday through Saturday, or by appointment.

Though not new, the *Mariposa Gallery*, 113 Romero Street N.W., must be mentioned for its excellent contemporary New Mexican ceramics, glass, jewelry, textiles, sculpture. Hours are 10 to 5 Monday to Saturday, 12:30 to 4:30 Sunday.

Other ideas for shopping: Alyce Kimmel Candies—in the plaza behind La Hacienda Restaurant—sells and makes all kinds of candy, including ones loaded with New Mexico piñon nuts. Nearby, The Card Shop silkscreens cards with a Southwest motif. At Casa Talavera (309 Romero Street N.W.), the specialty is tiles hand-painted with New Mexico themes. And in the Christmas Shop (400 Romero Street N.W.) you'll find tiny wood replicas of New Mexico churches.

Of Old Town's 11 restaurants, only Maximilian's (400 San Felipe Street N.W.), Christopher's (323 Romero Street N.W.), and the Old Town Ice Cream Parlor (302 Rio Grande Boulevard N.W.) are open for breakfast. The two best-known restaurants, La Placita and Ortega's La Hacienda, serve Mexican dishes in historic buildings.

Tiny spots, easy to miss but memorable, are La Crêpe Michel (400 San Felipe Street N.W.), featuring crêpes and quiches, and, for lunch only, Joseph's Table (408 San Felipe), which is run by a nun and students from her art school. Next door you can visit her gallery and, behind the restaurant, a sanctuary she and her students built. □

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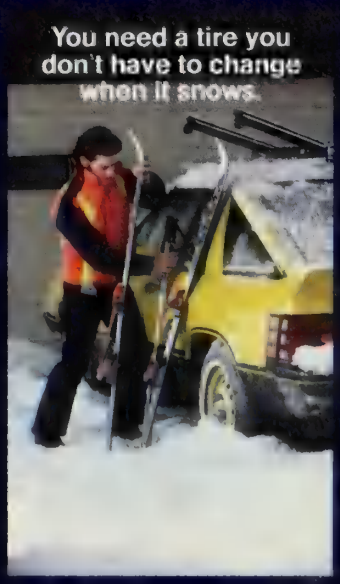

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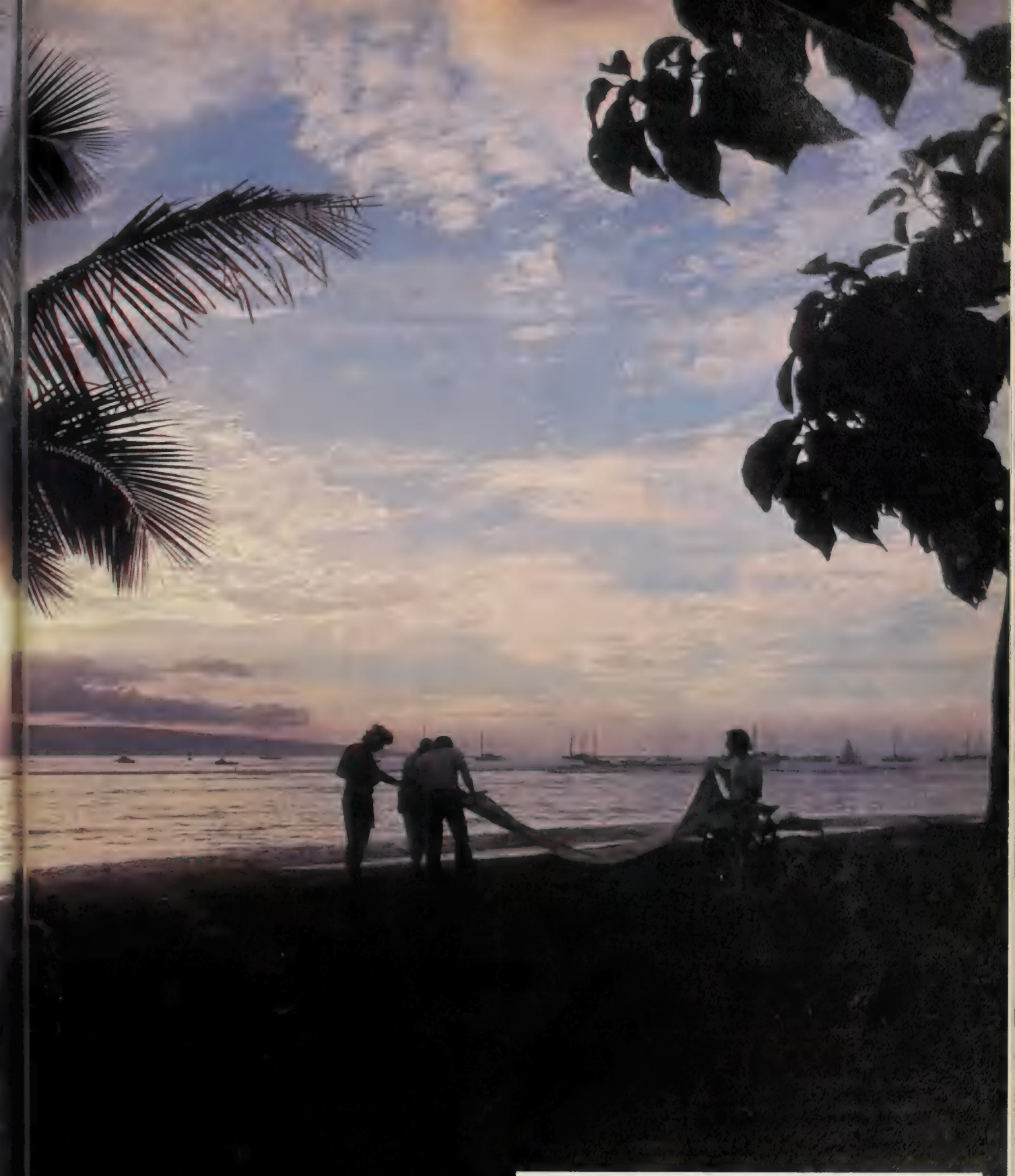

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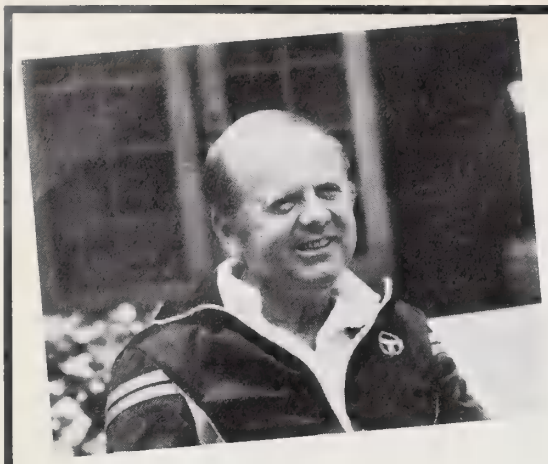

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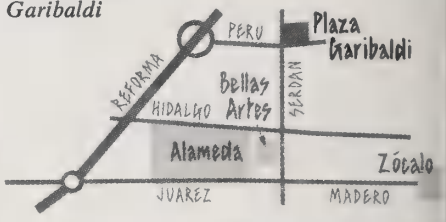
Mariachi band *strikes up a lively tune as evening falls over Plaza Garibaldi*



In Mexico City, band follows band

Those troubadours of Mexico, the mariachi bands, have made Plaza Garibaldi in Mexico City their own. A band or two play there most afternoons, and as twilight fades others appear, until by 9 or so as many as 20 bands may be stationed about the square.

First one bursts into song (*La Paloma* is a favorite), then another and another, each drawing a small circle of people. Who pays for the music? Swains do, and they hug and kiss as the romantic melodies surround them. Businessmen hire groups to serenade visiting associates. Families do the same for out-of-town friends.

If you get caught up in the spirit of the place, ask a group how much they charge for a song. (*Cuánto cuesta una canción?* will do.) Agree on a price: we paid 100 pesos (about $5) for the lilting strains of *Cielito Lindo;* locals pay much less, but that's part of the game. The players—typically two or three guitarists, two violinists, one or two trumpeters—will form a semicircle around you, and your serenade begins.

The action peaks at 10:30 or so; by midnight most of the players have gone. If you're feeling hungry or thirsty, there are some 30 little eateries under one roof just off the plaza, behind five arches. Two restaurants face the square.

Plaza Garibaldi is a 5-minute walk from the Palacio de Bellas Artes (where the Ballet Folklórico performs). It can be crowded; don't let a pickpocket jostle you. Out of courtesy to the people being serenaded, save your picture-taking until it's your turn to choose a tune. □

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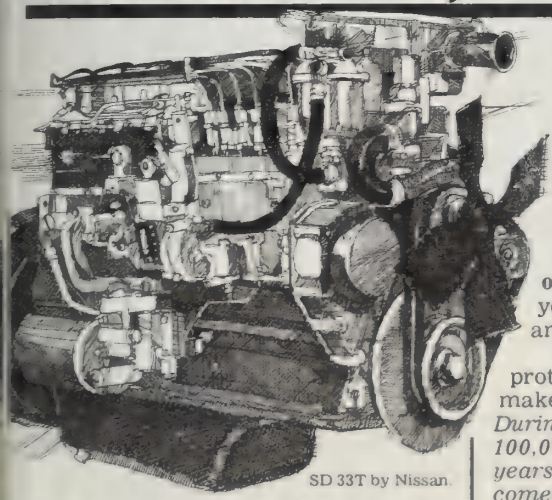

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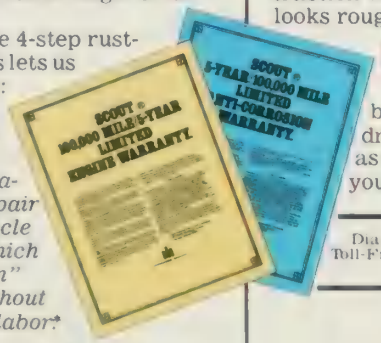

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Rock buttresses *filled with concrete support roof so cabin walls can be mostly glass. Former kitchen, left, is now a residence. You can picnic beside a spring near social hall, above*

Architectural hike above Tahoe

Trolls would build such mountain cabins, working on moonlit nights above Lake Tahoe, hauling crushing loads of rock for thick buttresses, fashioning metal over rugged roof-timber ribs like shipwrights cladding a Norse boat.

Trolls didn't design Glen Alpine: well-known Bay Area architect Bernard Maybeck did—in 1921. Despite years of neglect, its structures remain the most innovative and responsive-to-the-site buildings in the Lake Tahoe basin. Now they are being restored, and you can see them and possibly even talk with the man responsible for their restoration if you take a short hike above Fallen Leaf Lake, just south of Lake Tahoe.

Glen Alpine (the name still clings to this group of buildings, which includes several tiny cabins, a barn, social hall, kitchen, and lodge) began as a private retreat and spring-water source in the mid-1870s.

Later it became a resort, and flourished until a fire destroyed much of it in 1920. Maybeck, already famous for his brown-shingle houses and neo-classical Palace of Fine Arts in San Francisco, was asked to do a new plan.

His response combined the practicality of a miner's shack with the engineering of a Gothic cathedral. Snow slips off the metal roofs. The metal-sash windows (a Maybeck trademark—as in the Christian Science Church in Berkeley) fit between buttresses made by piling rock in place, then pouring concrete down into the pillar-shaped form's empty core. Each interior is airy, yet massively framed. So successful was the design-work that the buildings have survived 58 Sierra winters, mostly unattended.

The restoration and protection of the structures, and a search for any of the original furnishings, is being undertaken by David R. Fritschi, Jr., over his lifetime with his own and donated funds. Fritschi is a graduate architect. The Forest Service will maintain the property after his death.

Glen Alpine is Fritschi's residence, but hikers are welcome to visit if they first knock on the door of the building pictured above at left. If Fritschi or other restorers are there, they'll be happy to show you around. If no one is there, you can walk about and peek in the windows; be careful not to disturb anything.

The cabins are on a main trail into Desolation Wilderness. The trail begins near the south end of Fallen Leaf Lake. Drive past the store at lake's edge and look for a paved county road that goes left up the hill (if you reach Stanford Camp, you've gone too far). Park near Fallen Leaf Lake and walk about ½ mile uphill on the road to Lily Lake. There is parking at Lily Lake, but space is limited.

From Lily Lake, hike along the rocky, often muddy, dirt road past a locked gate 1 mile to Glen Alpine (elevation gain 240 feet). The social hall is beside the trail; other structures are close by.

You can picnic in the cool shaded area near the social hall, or continue up the trail 1¼ miles to rock-rimmed Grass Lake (elevation gain 400 feet). The wilderness boundary is just past Glen Alpine, and you need a permit to enter (available at the Forest Service Visitor Center ⅛ mile west of the junction of Fallen Leaf Road and State 89). □

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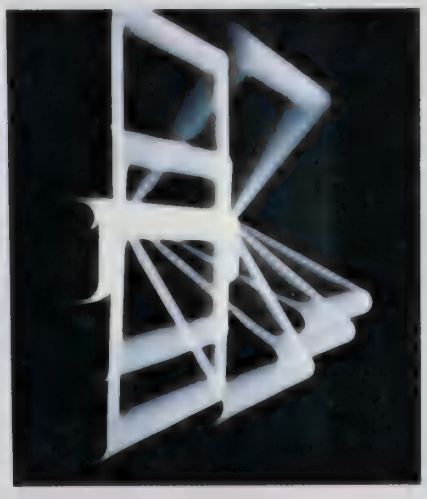

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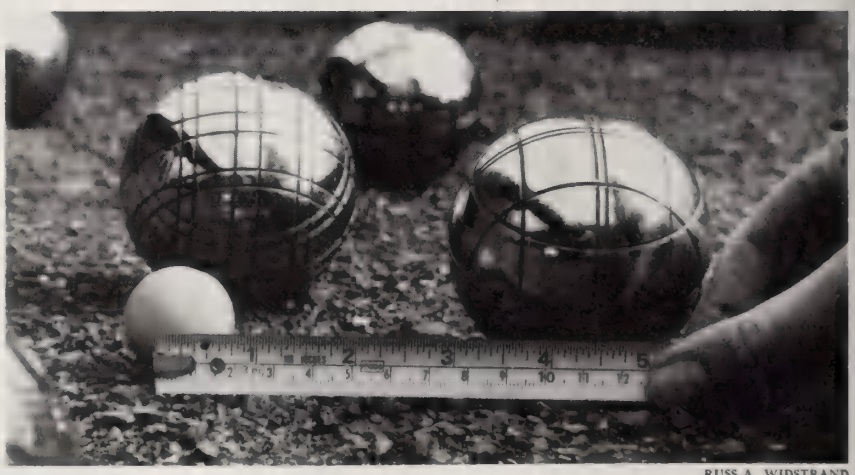
GLENN CHRISTIANSEN

Pétanque in the park: *family members and assorted friends try their hand at French ball game between picnic nibbling*

French *pétanque* . . . catching on in the West. You toss steel balls



RUSS A. WIDSTRAND

Wood cochonnet *or jack is 1-inch-diameter target. Groove patterns circling balls identify those of different players. Tape prevents arguments*

These shiny spheres are not *boccie* balls, shot puts, or giant marbles. They are metal *boules* for playing *pétanque*. Pronounced pay-*tank* (with strong nasal stress on the second a), this is a sport import from southern France (pétanque means "feet together" in Provençal).

For years, a few French devotees have been playing the game along the West Coast. Now pétanque's appeal as an all-family sport is attracting wider attention. You can participate—even an 8-year-old with sharp aim and a strong wrist can win. Or you can watch tournament-rank experts in action at one of the playing grounds listed later.

Though it may look a bit like lawn bowling, pétanque is not played on grass but on flat, bare ground: a patch of earth in your back yard or a smooth sandy beach will do. The basics are simple. First you throw a wooden marker called a *cochonnet* or jack a specified distance away. Then, standing with your feet together inside a small circle scribed with the boule, you make a backhanded toss of the ball, trying to place it as close to the jack as possible.

The game is played by two teams each with two or three players. On a two-person team, each player throws three balls; on a three-player team, just two balls. The ball landing nearest the jack earns a point (a tape measure helps with close calls); the first team to score 13 points wins.

In ancient times, round stones were used for pétanque; later, soldiers substituted small cannonballs. Now players use sophisticated steel balls (about the size of a baseball) which must weigh between 21 and 28 ounces.

Finding boules can be difficult. Any of the official clubs we list can supply you with a beginner's set of two balls for between $15 and $20. A set of three balls in a carrying bag costs about $32. A complete 12-ball set costs $111. You'll have to pay mailing costs. You should receive a set of rules along with your purchase. Or for a copy of *International Rules and Regulations of Pétanque*, send $1 plus 30 cents for postage to the Federation of Pétanque, U.S.A., 505 W.

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But before you invest in a set of boules, consider trying your skill at one of the clubs. Members usually play on public grounds, so you're free to watch and perhaps try your luck in the next round. Clubs charge members an annual fee of about $12.

These official clubs play regularly in various California cities; each can supply you with boules. Write or call for more information and playing details.

Los Angeles. *Club Amical de la Pétanque* plays at Rancho Park in central Los Angeles. François R. Favre, 606 Olive St., Los Angeles 90014; (213) 626-8711.

Marin County. *La Pétanque Marinière* plays across from the Marin Civic Center. Louis Toulon, 138 Southern Heights Blvd., San Rafael 94904; (415) 456-6284, or Walter Cuthbertson, (415) 457-2635.

Lafayette Club #5 of Marin, Section Pétanque also plays across from the Marin Civic Center. André Estournes, 83 W. Crescent Dr., San Rafael 94904; (415) 453-1914.

Les Tireurs play at Pickleweed Park in Kentfield and at Redwood High School in Larkspur. Hunter Spencer, 51 Glenwood Ave., Ross 94103; (415) 454-1204.

St. Helena. *Boules of Rutherford Hill* play on the grounds of the Rutherford Hill Winery. Lila F. Jaeger, Box 410, St. Helena 94574; (707) 963-7134.

San Jose. *Club Les Cigalons du Chat Noir* plays at Lincoln High School on Olive Street. Leon Mardirossian, 19926 Seagull Wy., Saratoga 95070; (408) 255-9176.

San Francisco. *La Boule D'Or* competes at the pétanque playing field at Golden Gate Park (next to the buffalo paddock and dog run). Louis Louvigny, 3662 Sacramento St., San Francisco 94118; (415) 931-4404, or Max Plancherel 752-0541.

Another source of help in finding people who play pétanque informally is any local office of the Alliance Française, a French cultural organization. □

GLENN CHRISTIANSEN

Backhanding boule *takes some practice. His coach is veteran Louis Toulon, who's watching on the left*

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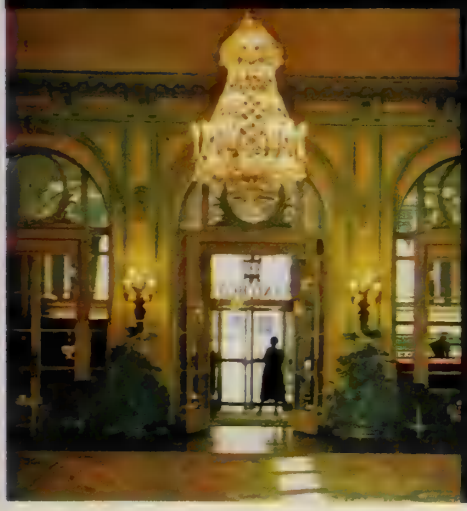

NORMAN A. PLATE

Glove box alternative: *plastic letter file with hinged top costs about $5. A surprising number of guidebooks and maps can be stored inside—almost 12 pounds worth*

"Glove compartment library" for California travelers . . . 29 choices

For California travelers, an overwhelming variety of guidebooks is available. The problem is not quantitative—you could tow a good-size trailer filled with such volumes. But many are unwieldy tomes better suited for reposing on coffee tables than for serving drivers.

So, for California motorists and visitors, we've devised an eclectic glossary of compact guides for a glove compartment library. We list 29 books and other printed materials that you may find helpful—or diverting—in your travels. Ten of the titles can also aid travelers in other Western states.

For bibliophiles unblessed with commodious glove boxes, we show one alternative: a plastic letter file with hinged top (about $5 at stationery stores).

Guides in our glossary are available in many bookstores and some specialty shops that sell books, or directly from the publisher. Most are paperback; many cost under $5. Because of their subject matter, some guides are timeless, but those listing prices or telephone numbers may not be completely up-to-date.

Our size limit precluded some valuable resources, including *Sunset* books, but you can always carry these on the car seat. We've also omitted guides that cover limited regional or seasonal topics as well as those available only to members of automobile associations. (Some publishers mentioned can send you a list of titles, including ones focusing on local or specialized subjects.)

Architectural delights

California Great House Locator (California Street Design Company, 215 Market St., San Francisco 94105, 1979; $3.95 at bookstores or $4.25 by mail). Basically a fold-out map in a paper jacket, this guide lists 138 Victorians, estates, and gardens open to the public. The map is

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*Peugeot 505D, manual 4-speed transmission. Remember: Compare the boxed estimate to the estimated mpg of other cars. You may get different mileage depending on how fast you drive, weather conditions, trip length and condition of your car. Actual highway mileage will probably be less than the highway estimate.

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NORMAN A. PLATE

Fold-out map *in California Great House Locator helped steer her to redwood-clad 1854 Woodside Store in San Mateo County*

number-keyed to capsule descriptions, including addresses and visiting details.

A Guide to Architecture in Los Angeles & Southern California, by David Gebhard and Robert Winter (Peregrine Smith, Box 667, Layton, Utah 84041, 1977; $11.95). You could spend months seeing all the architectural treasures listed in this long, chunky paperback. Entries list addresses and visiting information. Black-and-white locator maps aid your search; photographs illustrate selected structures. A companion work is also available: *A Guide to Architecture in San Francisco & Northern California* (1976; $9.95).

Back-road exploring

Tour the Country Roads: Discover the Rustic Wonders of California, by Arthur Reichert (Valley Publishers, Fresno, Calif., 1978; $4.95). This book is organized for a potential 13-day expedition; weekend wanderers can savor shorter sections.

Bird watching

The Audubon Society Field Guide to North American Birds: Western Region, edited by Miklos D. F. Udvardy, (Alfred A. Knopf, New York, 1977; $9.95). Excellent color photographs can help you identify winged squatters on roadside fence posts or raptors soaring over the freeway. Also available in the Audubon series: *The Audubon Society Field Guide to North American Wildflowers: Western Region* (1979; $9.95).

A Field Guide to Western Birds, by Roger Tory Peterson (Houghton Mifflin, Boston, 1961; $6.95). In this classic guide, color paintings and black-and-white drawings of birds facilitate identification.

Pacific Coast Bird Finder, by Roger Lederer (Nature Study Guild, Box 972, Berkeley 94701, 1977; $1.50). This pocket-size guide has black-and-white drawings of birds.

Californiana

1000 California Place Names, by Erwin G. Gudde (University of California Press, Berkeley, 1959; $1.95). This small book explains the origins of names given various bays, rivers, mountains, counties, and cities (Malibu: "the origin . . . is probably the Chumash Indian rancheria *Umalibo*.")

A Companion Guide to California, by James D. Hart (Oxford University Press, New York, 1978; $22.50). This geographical-historical-biographical reference is big, hardbound, and irresistible;

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author Hart has sprinkled his 504-page guide with gems: "California, Here I Come" was first sung by Al Jolson in the review *Bombo* in 1921.

Country inns

Country Inns of America: California, by Peter Andrews and George Allen (The Knapp Press, Los Angeles, 1980; $6.95). Appealing color photographs illustrate this guide to 43 inns where you can spend the night. Architecture, furnishings, and meals are described.

Historic Country Inns of California, by Jim Crain (Chronicle Books, San Francisco, 1977; $4.95). Heavy on the history of 64 inns, this guide also describes interior furnishings and meals served. Black-and-white photographs illustrate.

Geology guide

California's Changing Landscape, by Gordon B. Oakeshott (McGraw-Hill, San Francisco, 1978; $15.95). More than a textbook (look for it in college bookstores), this big paperback is filled with excellent black-and-white photographs, charts, and maps that can bring the convoluted California landscape into clearer view.

Historic sites

California Historic Landmarks ($4 at major state parks, or $5 by mail—California residents add sales tax—from the Distribution Center, Department of Parks and Recreation, Box 2390, Sacramento 95811). This guide lists 879 sites, with capsule descriptions.

Hot springs, spas

Hot Springs and Pools of the Southwest, by Jayson Loam (Capra Press, Box 2068, Santa Barbara 93120, 1979; $7.95). Directory section includes locator maps and temperatures of hot springs in California, Nevada, Arizona, and New Mexico. Many black-and-white photographs show nude soakers.

Hot Springs and Spas of California: A Guide to Taking the Waters, by Cooper and Cook (101 Productions, San Francisco, 1978; $3.95). The particulars of springs and spas are described; black-and-white sketches illustrate.

Natural nibbling

Edible and Useful Plants of California, by Charlotte Bringle Clarke (University of California Press, Berkeley, 1977; $5.95). Maybe you can eat some of those weeds growing by the road: 200 edible plants are described in this guide, illustrated with color photographs and black-and-white sketches; recipes are included. This book is part of the excellent California Natural History Guides series of some 40 titles.

Navigation aids

Dist-O-Map (Rand McNally; 95 cents). Not a map exactly, this circular California mileage indicator can help answer the question: "Daddy, when do we get there?" You turn a cardboard dial until the arrow points to the city nearest your start, then read the mileage to your destination in a tiny "window." Major highways are shown. If you can't find this device in stores, send $1.25 to the distributor: Harry J. Friesen, Box 5313, Fresno, Calif. 93755.

Official California Visitor Map. It's official, and even better, it's free. Write to the Office of Visitor Services, Department of Economic and Business Development, 1120 N St., Sacramento 95814.

Nostalgic detours

California for Travellers and Settlers, by Charles Nordhoff (Ten Speed Press,

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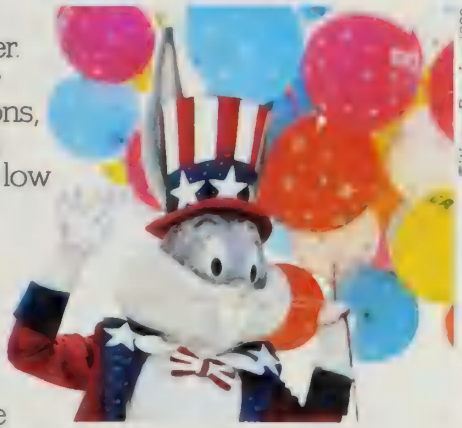

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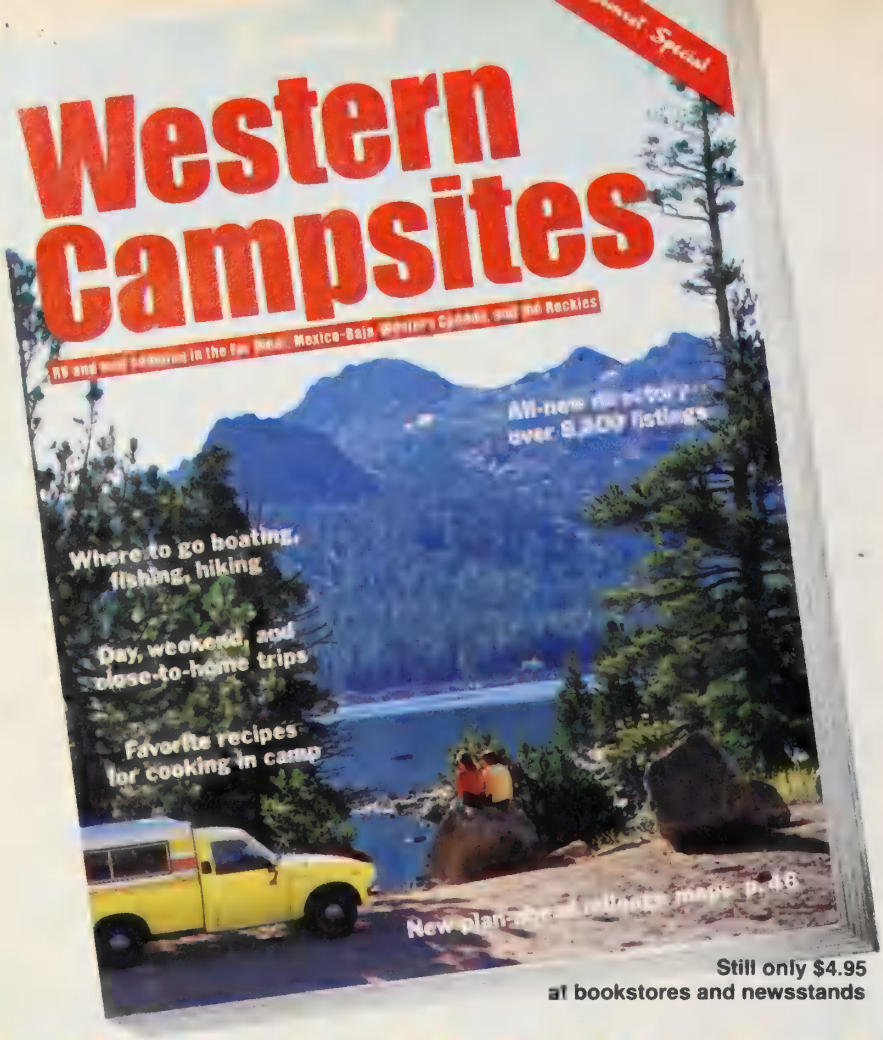

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Box 7123, Berkeley 94707, 1973; $3.95). This reprint of a book first published in 1873 is punctuated with period engravings. The prose is delightfully innocent: "The Californians . . . enjoy all the advantages of a tropical climate with but few of its disadvantages . . . no malarious fevers, no musquitoes, no poisonous reptiles; yet their roses bloom all the year round."

Motor Touring in Old California, by Don DeNevi and Thomas Moulin (Celestial Arts, Millbrae, California, 1979; $6.95). An imaginative effort full of black-and-white photographs of classic cars and picture-postcard sights from the early days of automobile travel.

State parks and beaches

Guide to the California State Park System (50 cents at most state parks, or $1 by mail from the Distribution Center, Department of Parks and Recreation, Box 2390, Sacramento 95811). One side of this map-guide shows locations of state-managed parks, beaches, and reserves. Turn it over and there's an alphabetical directory of parks and their facilities; symbols indicate camping and available activities. It folds up to a neat 8 by 11 inches—or smaller.

Tree-finding

Color for the Landscape: Flowering Plants for Subtropical Climates, edited by Mildred E. Mathias (California Arboretum Foundation, 301 N. Baldwin Ave., Arcadia, Calif. 91006, 1976; $10.95 plus $1 for postage; California residents also add sales tax). If you're puzzled by the profusion of colorful trees blooming along city streets, this slim hardbound book can guide you. Selected native plants are also shown in richly reproduced photographs. Captions give plant names, area of origin.

Trees of the West, by Mabel Crittenden (Celestial Arts, Millbrae, California, 1977; $4.95). Black-and-white drawings show leaf detail; sketches show trees in profile.

Wilderness wandering

Wilderness Digest: Southwest, edited by Don M. Deck (High Adventure Team, Western Region, Boy Scouts of America, Box 989, Lone Pine, Calif. 93545, 1979; $1.95 list price, $2.50 by mail). This digest-size guide covers wilderness areas in California, Arizona, and Nevada, listing details on permits, fees, rules, and sources of help.

Wildlife watching

Marine Mammals of California, by Robert T. Orr (University of California Press, Berkeley 94720, 1972; $2.85). Travelers along coastal highways could find this guide useful. Whales, porpoises, dolphins, seals, and sea lions are shown.

A Pilgrim's Notebook: Guide to Western Wildlife, by Buddy Mays (Chronicle Books, San Francisco, 1977; $4.95). Horizontal format features good black-and-white photographs and drawings of wildlife.

Winery touring

California's Wine Wonderland. This free, pamphlet-size guide lists wineries (members of The Wine Institute) that welcome visitors. For a copy, send a stamped, business-size envelope to The Wine Institute, 165 Post St., San Francisco 94108.

The Vineyard Almanac & Wine Gazetteer 1980 (The Vineyard Almanac, 960 N. San Antonio Rd., Los Altos, Calif. 94022, 1979; $1.95 at some bookstores and wine shops, $2.45 by mail). This almanac contains a nationwide winery directory (naturally heavy on California) that lists addresses, visiting information, telephone numbers. □

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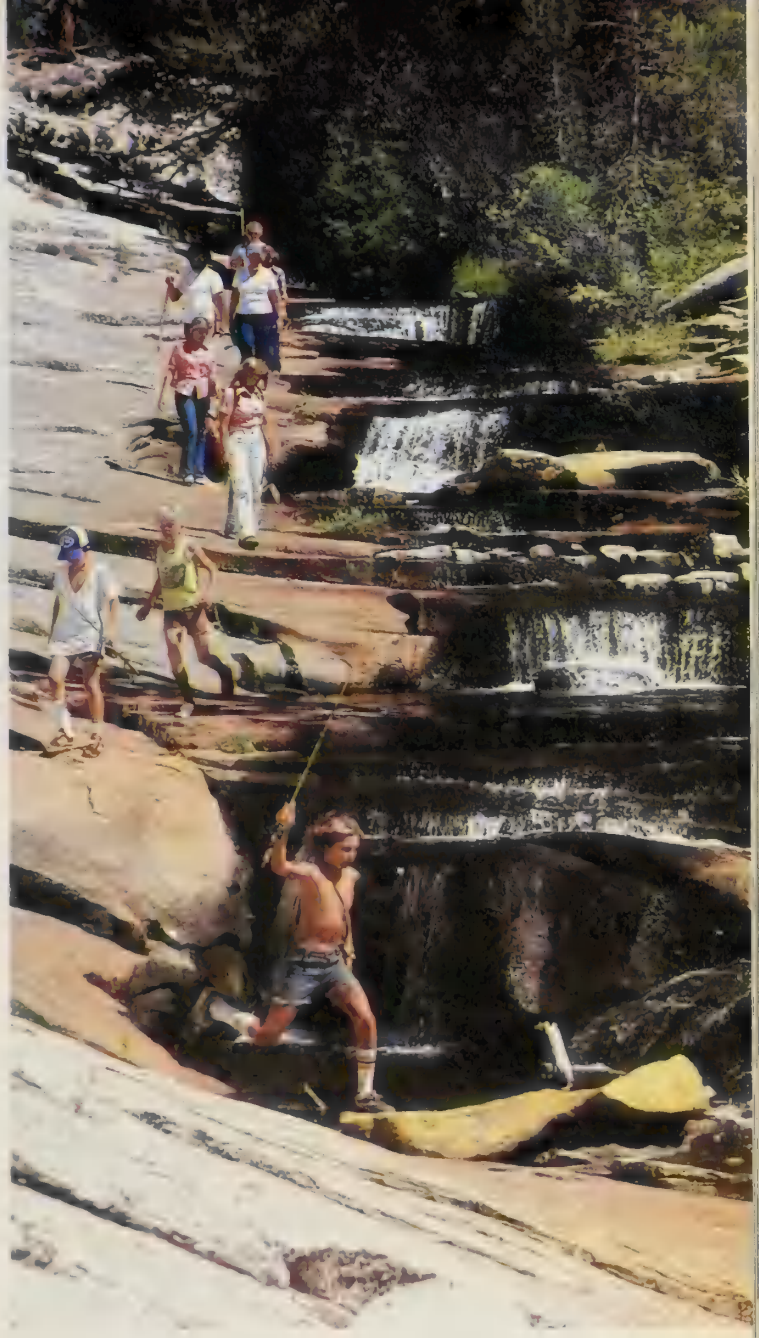
Showing its colors *for the camera, golden trout from Golden Trout Creek was caught, then released*

Stair-stepping falls *spill into child-size pools along Salmon Creek, a short walk from Horse Meadow Campground*

Fording Fish Creek *again and again, trail across Smith Meadow can be taken on rides arranged with packers*



The Sierra Nevada tumbles to its southern terminus in a final fling of high-country splendor known as the Kern Plateau.

A 3- to 4-hour drive northeast of Los Angeles, the plateau offers Southern Californians their closest-to-home Sierra wilderness. Yet its hundreds of miles of trails hold the promise of solitude not readily found in the more heavily trafficked national parks and forests to the north. Here you can explore trails on day hikes from campgrounds or motels. Backpacking and horse-packing expeditions can lead you deeper into this distinctive terrain.

Ice Age glaciers halted at the plateau's northern fringes (the present boundary of Sequoia National Park), leaving to the

Cowing the sky, *weather-beaten Western juniper is venerable survivor on north flank of 12,500-foot Kern Peak*

The Kern... gentle wilderness

Maybe the best of all the Sierra for footing it. Or go on a horse. Or sample the grand edges with your car

Switchbacking up *the eastern escarpment of the Sierra, graded dirt road overlooks dry bed of Owens Lake in distance*

Sleeping bags *and pads secure, backpackers begin trek from 9,800-foot-high trailhead*

south an untouched tableland of granite peaks and summer-green meadows. With elevations ranging from 6,000 to 10,000 feet, the plateau region is open for hiking and camping from mid-May through October. This past winter's heavy snowpack may linger in melting patches high in marshy, wildflower-dotted meadows in July. The plateau's more arid southern reach is most pleasant now and in the fall.

Golden trout, granite domes

Often called the "gentle wilderness," the Kern Plateau is almost ideally suited for exploration on foot. No vehicles are permitted in the two regions protected officially as wilderness. The massive Golden Trout Wilderness, designated just two years ago to protect the only native habitat of its namesake fish, is a land of meadows shot with the silvery threads of prime fishing streams. Southward, Dome Land Wilderness is semiarid country punctuated with dramatic granite formations that have earned the title "wilderness on the rocks."

These two areas could be linked in a continuous wilderness, if several other parts of the plateau receive wilderness-status —and protection from logging, mining, and off-road vehicle impacts—as proposed in Congressman Phillip Burton's current bill (HR 5578), which may come to a vote later this year.

Winding your way up to the plateau

Highways approach the plateau from the southwest corner and from the east side.

State Highway 155 winds up the Kern River gorge toward Kernville, a town offering a base of operations with motels, cafes, supply stores. At the Sequoia National Forest district office on the main street, you can pick up maps, a self-guided auto tour pamphlet, hiking and camping information.

North of Kernville, the road snakes up the canyon—western boundary of the plateau—past nine riverside Forest Service campgrounds (six developed), and a few resorts and cafes; the steak dinners at McNally's in Fairview can be a tasty welcome-back after a week on backpacker's rations.

Where the road bridge cuts west, an easy hiking trail leads north along the Kern River's east bank to a cascade (about 6 miles round trip; park near the bridge).

Just south of this bridge, the paved Sherman Pass Road, completed in 1977, cuts off to the east and onto the plateau.

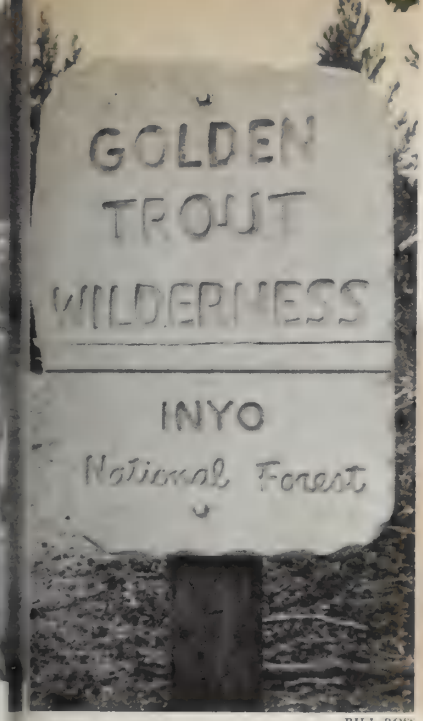
About 2 miles after turning east, look for the straight north-south valley of the Rincon Fault, ancestral bed of the Kern River (diverted by a prehistoric earthquake). Trails of interest to geology buffs lead in both directions along the fault.

Plant-filled Big Meadow, panoramic Bald Mountain

A few miles farther east, the unpaved Cherry Hill Road twists tortuously south through red firs to the Forest Service's Horse Meadow Campground (normally uncrowded) at 7,800 feet and the western trailheads into Dome Land. Big Meadow boasts one of the largest plant collections of any Sierra meadow—over 280 kinds, including 35 grasses and the rare alpine wild onion.

A short hike from road's end at Taylor Meadow leads to spectacular views of cathedral-like Church Dome. Summers are hot and dry here, but backpackers can usually find water in Manter Meadow's creeks. (Proposed wilderness around Siretta Peak includes the southernmost golden trout habitat and the Sierra's southernmost grove of foxtail pines.)

Continuing east on Sherman Pass Road, you'll come to a parking turnout. A short walk brings you to the Bald Moun-



BILL ROSS

Up to the Kern,
om the southwest
or east.
umping-off point
or many visitors
is Kernville

Dark areas *show the two existing wildernesses; light adjuncts have been proposed for wilderness classification*

ernville *has stores that sell* *pplies. Ranger station on main street* *s maps, permits*

tain Lookout tower; climb to the catwalk for 360° views of plateau terrain.

Meadows, more meadows, and meadow camps

At the Blackrock Ranger Station, the Sherman Pass Road meets the road from Kennedy Meadows. This is the main entry to the plateau from U.S. 395 on the desert side (turn west on Chimney Peak Road—you'll see the "Kennedy Meadows" sign—then turn left at the "Blackrock Ranger Station" sign). Along this road are three Forest Service campgrounds in lovely meadow settings (see map). From Fish Creek Campground, a trail leads 5 miles north to Hooker Meadow—site of the plateau's finest aspen grove.

These three campgrounds make handy overnight stops for backpackers seeking an early-morning start into the Golden Trout Wilderness via its southern trailhead at the end of the road north from Blackrock Ranger Station.

Hot springs steam, Kern River roils

From road's end, the forest-flanked trail opens out on wide Casa Vieja Meadows before switchbacking down Ninemile Creek to Jordan Hot Springs, a very rustic cabin resort. You can rent cabins and tent-cabins here for $65 a day per adult —including all meals, the pack trip in and out, and hot-spring mineral baths. Backpackers are welcome to camp ($2.50 per day), eat, and bathe. For details, write to Jordan Hot Springs Resort, Box 966, Weldon, Calif. 93283; (714) 378-2232.

A trail west follows Ninemile downstream to its junction with the Kern. A rugged 20-minute hike (no trail) up the Kern reveals the roiling main falls of the southern Sierra's longest river. (The North Fork Kern River, above Kernville, is now under study for possible inclusion in the National Wild and Scenic River System.)

Heart-of-the-wilderness trails

Main entry into the northern end of the Golden Trout Wilderness is a westward cutoff from U.S. 395, 4 miles south of the town of Lone Pine. Turn west on Lubken Canyon Road, drive 3 miles, then left onto Horseshoe Meadow Road, leading 14 miles (partially paved; broken line on map) to road's end.

From here, hiking trails lead into the heart of the wilderness and offer you the best chance for seeing golden trout. Footpaths over Mulkey and Trail passes go to the Kern's South Fork, where it twists through the flats of wide-open Templeton and Ramshaw meadows.

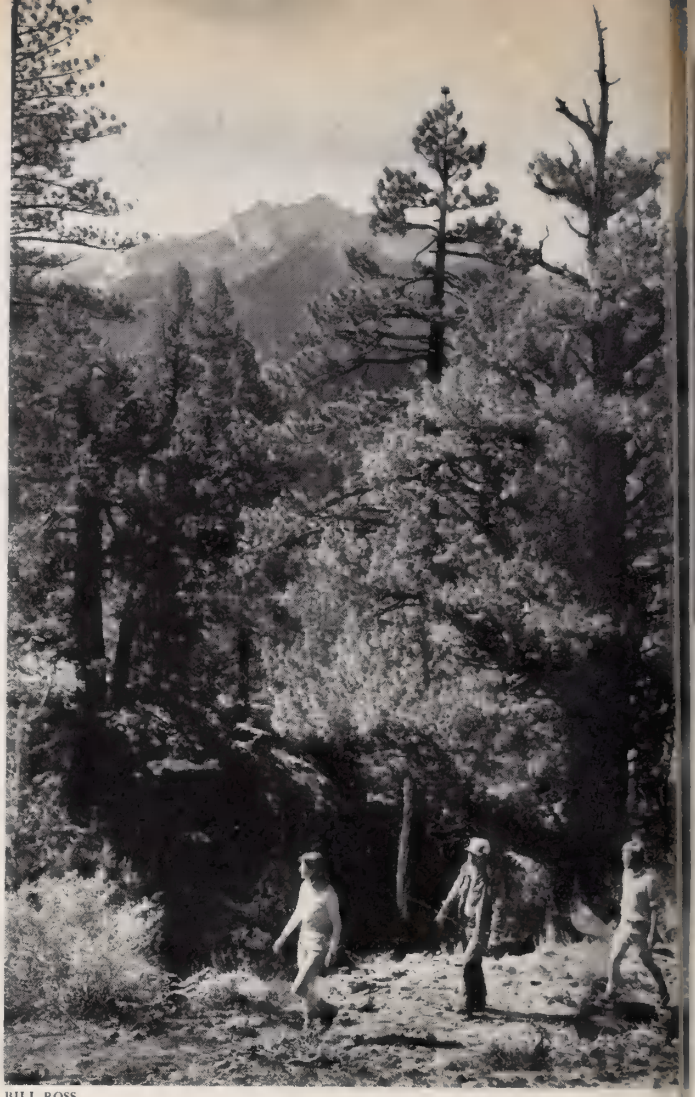
Enter the plateau over 11,200-foot Cottonwood Pass to cross beautiful Big Whitney Meadow and follow gently tumbling Golden Trout Creek south to Tunnel Station. Hiking west you come to acres of jagged, red-black volcanic cinder—the Malpais Lava Flow (climb carefully on the dormant steam-vent peaks). Nearby Natural Bridges and the confluence of Golden Trout and Malpais creeks offer classic Sierra beauty.

Golden comeback over cannibals, cattle, man

Due to "wilderness" protection and stream-management efforts by the California Department of Fish and Game and the U.S. Forest Service, the goldens are making a strong comeback after an alarming decrease. Imported brown trout ate young goldens; rainbows crossbred with them; siltation and erosion caused by beaver dams, cattle grazing, and off-road vehicles ruined gravel spawning beds.

Fish and Game staff are restoring the native golden populations on the plateau. Goldens are restocked in a 15-mile stretch of the South Fork above Monache Meadows and the section flowing through Templeton Meadow.

Trout season is the last weekend in April through mid-November. A state license is required. Limit is five, at least 6 inches long. Only single, barbless hooks and artificial flies (orange caddis types work well) are permitted; most anglers release their catch.



BILL ROSS

Sawtooth peaks prod clouds *over Mineral King area. Hikers and fisherman share sun along Malpais Creek gorge*

For the future of the goldens in the South Fork Kern River, wilderness protection for 4-mile-wide Monache Meadows is important. The largest meadow in the Sierra, it suffers heavy abuse from off-road vehicle traffic.

Preparing for your plateau journey

Don't begin any excursion on the Kern Plateau without good maps and trail and weather information (there's a 5 percent chance of an afternoon thundershower in summer). You'll need wilderness permits for the wilderness areas and campfire permits for some campgrounds.

Help from Forest Service, BLM. If you plan to visit the southern two-thirds of the plateau, write or call: Sequoia National Forest, Cannell Meadow District, Box 6, Kernville, Calif. 93238; (714) 376-2294. For the northern third: Inyo National Forest, Mount Whitney District, Box 8, Lone Pine, Calif. 93545; (714) 876-5542. For the strip along the plateau's east flank: the Bureau of Land Management, Bakersfield District, 800 Truxton Ave., Room 311, Bakersfield 93301; (805) 861-4191.

Maps, hiking guides. Six USGS topographic maps cover the plateau: Kernville, Lamont Peak, Hockett Peak, Monache Mountain, Olancha, Kern Peak. Best guidebook is *Self-Propelled in the Southern Sierra, Volume I*, by J. C. Jenkins (Wilderness Press, Berkeley, 1978; $8.95). The plateau's northern part is well covered in the pocket-size *High Sierra Hiking Guide #13, Kern Peak - Olancha*, by J. C. Jenkins and John W. Robinson (Wilderness Press, 1979; $3.95).

Horseback riding. Two horse packers supply mounts for Kern Plateau riding by the day or longer. Rates are about $25 a day per horse, $35 with a guide. For details, write to Kennedy Meadows Pack Trains, Box 966, Weldon, Calif. 93283; or Cottonwood Pack Station, Box 43, Olancha, Calif. 93549. For short guided rides ($7.50 per hour), try Lazy River Lodge, Kernville, Calif. 93238; (714) 376-2242. □

Deeper into wilderness ...home of the never-say-die golden trout

Looking almost manicured, *typical Kern Plateau creek meanders between grassy banks, luring nearby campers*

After-dinner campfire *warms tired guests, campers at Jordan Hot Springs*

JOHN MARRIOTT

High-rise melons, squash, gourds beat the garden space crunch

Not as easy as letting them sprawl. You train, weave, tie. Payoff is big, evenly ripe fruit

In times when many people have less space available for vegetable plantings, you can save ground space by growing upwards—as gardeners have long done with peas and beans. The cucurbit vines (squashes, melons, gourds) can also tolerate having their stems tied or looped up, and vertically directed vines will ripen their fruit just as well as those that sprawl on the ground.

You can train the growing stems of these plants up strings, trellises, or wide-mesh wire cages; some gardeners even train them up the south walls of houses. The trick is to start just as vines begin to grow, and to keep tying and redirecting them until maturity. Once a cucurbit vine has sprawled out and become long and leafy, it's too stiff for reeducation.

Though the vertical training methods shown here look different, they are really of two basic types.

The first is the trellis—be it a wood lattice like the one shown at top left, or a wire-mesh cage like the one at top right. By this method, you weave growing vines through the open spaces until they reach the top; then, if vines grow long enough, let them trail back down. This method is best for shorter vines, like cucumbers and muskmelons, since it will give them good support even if they don't grow all the way up.

The other way is to run twine up to top supports on a hollow frame. This works best for long vines like watermelons, luffas, winter melons, and even pumpkins. As the vines grow, tie them to the twine with paper-coated wire ties (the kind that keep bread bags closed). Train them up until they grow over the top of the frame, then let them ramble down the other side, so that fruits will be counterbalanced as they grow and won't pull the vines down.

On vines trained either way, fruits will ripen evenly and won't be as likely to rot as ground-grown ones.

A disadvantage is that heavier cucurbits can blow off in the wind or drop off when ripe. To avoid this, you can support them with slings tied to the trellis or frame; make miniature hammocks of garden netting or torn pantyhose. □

DON NORMARK

Low climbers *like 'Blue Hubbard' squash can be woven through trellis to lift vines. Owner: Milton Stapp, Seattle*

NORMAN A. PLATE

Container-grown *midget cantaloupe and cucumber vines get support from 3-foot-high wide-mesh wire screen*

MICHAEL THOMPSON

All-purpose A-frame *was built for peas and beans but is now training luffas on twine that's strung between nails on top beam and wire across base braces*

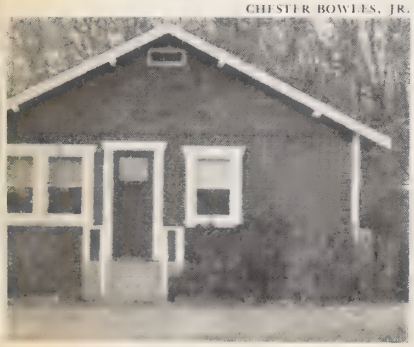
gh-rise *winter melon cage built over bottom container. vine strung between crosspieces pports growing vines. Owners Sylvia and Peter Chan*

1· New second story, Santa Rosa

Living room *now has 20-foot ceiling, ridge-line skylights. Below, bifold shutter provides privacy to bedroom*

DAVID STUBBS

CHESTER BOWLES, JR.



Raising the roof *8 feet on this 1920s cottage gained partial second floor. Pediment with arched opening covers 6-foot-deep front porch. Architect: Chester Bowles, Jr.*

2· Opening up in Denver: living room now 20 feet tall

JOHN COFFEY

One-time boarding house, *built 88 years ago near downtown, has changed little outside*

Taking out *part of the second floor gave architect John Coffey's house a two-story living room, balcony study. Removing 1½ inches of plaster revealed the house's handsome brick walls*

Five small old houses open up

One raises the roof. Others lose walls, ceiling. Not one needs a larger foundation

Smallness is being rediscovered in today's remodeling renaissance. Some of the chief beneficiaries of this renewed interest are the older one- and two-bedroom houses that can be found in almost every community.

On these six pages we show five examples of surprising remodels. Each house is a small one on a narrow city lot. Although they come from all over the West, they have much in common: all are 1,300 square feet or less, and none has grown outward—all still sit on their original foundations. Instead, they have expanded internally: walls have been knocked out, ceilings were removed, space was discovered in attics; and in one the roof was raised for a second-floor addition.

Economically, smallness has become a virtue. It simply costs less to insulate, heat, and maintain a smaller house. Older houses ripe for remodeling are widely available and often located near downtowns, and their initial costs are often lower than to build a new house on increasingly scarce land.

All of our examples are pre-World War II vintage (one was built in 1892). They provided good shelter and usually had a living room, separate dining room, kitchen, and bathroom, as well as one or two bedrooms. High ceilings and large

3·Very small house gets big room that's half house wide, full house long

JOHN CORGIAT

DAVID STUBBS

Shingled exterior, *new entrance, and curved window and canopy update exterior of this 920-square-foot cottage in Yountville, California*

House-long *living and dining room is also half a house wide. Center wall acts as shear wall to support new ridge beam and roof. Design: John Ruggeri*

rooms weren't expected or looked for in these modest houses.

Creating new volumes

By eliminating walls and ceilings, all the small houses we show gained some type of house-wide, house-long, or house-high expanse.

These new volumes are visual surprises, making the houses seem more contemporary and spacious than they appear to be from the street. (For instance, there are 20-foot-high ceilings in both the cover house and the 22-foot-wide Denver house shown on page 83.) In these bigger spaces, entertaining, dining, and cooking can take place in plain view of one another, where once it was fashionable to separate them. Some architects and sociologists are calling a room where household functions visually and physically overlap "the great room."

4·Very, very small house gets window seat, interior wall windows

Popped-out *window seat, generous interior windows, and two pairs of skylights help make tiny cottage seem bigger. Ceiling of hip-roofed house was raised: now, heavier 2 by 8's act as crossties to rafters. Architect: Paul Brenna, Issaquah, Washington*

DON NORMARK

A small house can also seem bigger by opening it to the outside. In the house shown on pages 86 and 87, the living room seems to flow out through the French doors, onto a small deck, and into the garden beyond. A screening fence and mature trees (another bonus of older houses) add to the privacy and view from inside.

Reality sets in

Of course it's fine to talk about "new volumes" and "great rooms," since they are intriguing architectural ideas. But they are achieved by careful planning and hard work.

Planning requires the efforts of the homeowner working often with an architect, and sometimes with a structural engineer.

It's a good idea to get the building inspector involved as early as possible with your remodeling project. He knows the rules—both the general building code and the hidden restrictions that can lurk in local regulations. (To help homeowners, many towns provide free booklets outlining the general rules concerning remodeling.)

If you are considering buying an older house to remodel, the private-practice building inspector can also be helpful. For a fee you can sometimes hire his services for a presale inspection that should provide you with a good idea of the condition of the house.

The price of extensive remodeling—which can include new plumbing, wiring, foundation work, and framing—is not cheap. One experienced contractor says, "Remodeling is much more time-consuming than starting a house from scratch." Because remodeling is so labor-intensive, many contractors will quote a

NORMAN A. PLATE

Realities of remodeling *aren't pretty when the lath and plaster come off the walls and ceilings. Narrow hall, low ceilings, too many doorways made the 420-square-foot cottage seem even more claustrophobic and small*

Wide-angle view *of architect Michael Rachlin's Los Angeles house shows how wide openings, part walls make 1,250-square-foot house seem larger. Metal tie rods attached to reinforced rafters keep the roof from flattening. There's a sleeping loft above the center wall*

conservative estimate of $50 per square foot, but it can often go higher.

Changing loads, adding loads

Walls and ceilings often have important structural roles in transferring the weight of the roof to the foundation and in giving the house lateral strength. To create a room the full width of the house, often part or all of a central bearing wall must come out. The old ceiling joists that rested on it will not legally span the new width (and they were more than likely spliced together on top of the old wall). Larger ceiling joists must replace them, especially if the attic space will be converted to living space.

For a floor-to-ceiling expanse, a new ridge beam, weight-bearing posts, and larger footings are likely to be required. A structural engineer must be called in to do calculations to determine whether your plans will meet the building code requirements.

In earthquake zones, removing walls or adding a second floor can increase a house's susceptibility to earthquake damage. It's a good idea (and often required) to reinforce existing walls by covering them with plywood sheathing. This creates a "shear wall" that helps distribute wall loads and the side-to-side shaking effects of earthquakes.

Words of advice

"There's more than meets the eye in remodeling," says architect Chester Bowles, Jr., the designer of our cover house. You'll hear these words echoed by other architects, contractors, and homeowners who have tackled their own remodels. They have learned to expect the unexpected.

For no matter how carefully the plans have been thought out, how beautiful they look, or how grand the transformation will be, as soon as the walls of an older house have been opened up, the surprises begin. They can come in all forms: 2 by 4's that are actually 2 inches by 4 inches, set 24 inches apart instead of 16; old-fashioned knob-and-tube wiring with connections that few know how to make any more; undersized window headers that have to be replaced (especially if you are adding a second-floor load over them); hidden dry rot or termite damage; and walls that have settled or were built out of square. In fact, one builder suggests that 5 percent of the budget for any remodel be set aside in a special account with an ominous-sounding name like "The Unknown."

But there are few times in the life of a house that the walls are opened to the framing, and it can be something to take advantage of. In an older house the galvanized plumbing is more than likely corroded and clogged with years of mineral deposits. Now is the ideal time to replace it. (One emphatic independent house inspector says, "I wouldn't even think about it—just replace it.") Other in-the-wall upgrading projects might include new wiring, insulation if it's an outside wall, and replacing old windows with insulating double-glazed windows.

In the end, there's still some romance in a successful remodel of a small house. Part of it is the charm of smallness and a respect for the past. Each of our examples preserves the original character of the house and its neighborhood by quiet upgrading rather than startling exterior change. And their interior changes, contrasting old with new, are at once surprising and practical. □

NORMAN A. PLATE

5· Indoors they opened up: they lost their ceiling, knocked out a center wall. Outdoors they gained new living space

MICHAEL RACHLIN

Before and after *photographs show changes: old front door (right) remains as kitchen entry; main entry moved around to left. Random-width rough-sawn cedar planking covers house; deck and steps are redwood sealed with polyurethane*

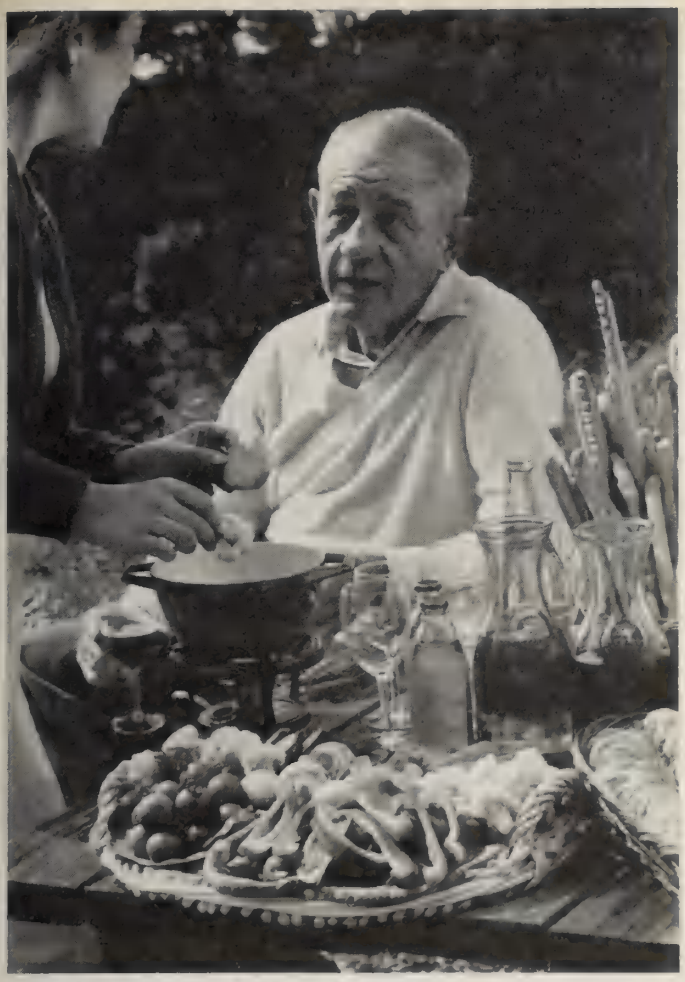
Triple French doors *at end of living room open to spacious deck surrounded by solid fence that matches house siding*

GLENN CHRISTIANSEN

Supper party flows easily, *with three serve-yourself stations: appetizers and wine on the patio, and hot soup and dessert indoors*

Two "nothing-to-it" big parties

The first one is a walk-around supper. You get a mug and a spoon



Start with crunchy vegetables *and breadsticks to dip in warm, garlicky, herb-seasoned butter. Use thin bread slices to catch the flavorful drips*

Next stop is for soup, *a piping hot beef broth guests can ladle into mugs, then embellish individually with croutons, shredded carrots, chopped tomatoes, or sour cream*

As food costs rise, the expense of entertaining a big group at home can seem increasingly formidable. To help out, we've taken a fresh look at some ways to manage a large party with ease.

Eleven years ago, *Sunset* introduced a convenient way to stage a large party. We called it the Nothing-To-It Party. With different courses of the meal served at separate stations, strategically located indoors or out, guests could walk around and serve themselves at their own pace.

All foods were eat-out-of-hand, and they were served whole, when possible, for a dramatic presentation. Rented wine glasses or plastic cups, napkins, and an assortment of mugs for coffee or soup were the only tableware needed. Since guests served themselves, the host and hostess were free to circulate.

Menus for our earlier parties depended on a large cut of meat guests could style into their own individual sandwiches. Since it's no longer economical to serve a big piece of meat, we've designed two new nothing-to-it menus with economy as well as ease in mind. Our three-station soup party, shown on these two pages,

Dessert *station is do-it-yourself shortcake. Here guests top flaky biscuits with peaches, plus dollops of whipped cream and a drizzle of raspberry sauce*

and the walk-about brunch pictured here were planned for groups of 12 to 16. Either menu can easily be expanded for a larger number.

Three-station supper

For the condiment-soup supper party, set up your first station—the appetizers—outdoors or near where guests arrive; you'll need a chafing dish or canned-heat burner to keep the herb-seasoned dipping sauce warm.

To be sure soup stays piping hot throughout the party, use an electric warming device or place the kettle over direct heat and serve from the kitchen.

For the shortcakes, provide sturdy paper plates (or plastic cups) and spoons.

Vegetable-dip station. Allow for 1 to 2 cups vegetable pieces per person. Choose a colorful assortment of celery and carrot sticks, small whole mushrooms, cauliflowerets, cherry tomatoes, red and green bell pepper strips, zucchini sticks or slices, and radishes (with some of the top left on). Arrange vegetables on a large tray or basket; sprinkle with water just before serving.

You'll also need 1 to 2 loaves of thinly sliced crusty baguettes or cocktail rye.

Hot Herb Butter - Oil Sauce. In a 4-cup (minimum) chafing dish, combine 1½ cups butter, ¾ cup olive oil or salad oil, 6 to 8 cloves garlic (minced or pressed), 1½ teaspoons *each* oregano and marjoram leaves, and 3 tablespoons chopped parsley. Heat, stirring, until butter melts. Keep warm.

Soup station. Prepare broth at least a day ahead or freeze up to 1 month ahead; allow about 8 hours at room temperature for thawing. Before serving, simply reheat broth.

For the help-yourself condiments, choose at least 4 of the following, allowing 2 cups of each: seasoned croutons, shredded carrots, sliced green onion or chopped mild red onion, chopped fresh tomatoes, sour cream or unflavored yogurt, thawed frozen peas or corn.

Beef-Wine Broth: In a large kettle (at least 10 qts.), combine 4 quarts water; 4 pounds beef shanks; and 5 pounds beef bones, cut in pieces. Add 3 large onions, cut in chunks; 5 or 6 large sprigs parsley; 3 carrots, cut up; and 1 jar (2¼ oz.) instant beef bouillon (or 18 beef bouillon cubes). Cover and bring to a boil, then reduce heat and simmer gently for 3 hours, or until shanks are very tender.

Lift shanks from broth and set aside. When cool enough to handle, remove meat from bone, discarding fat. Cut or tear meat into shreds and set aside. Return bones to broth and add 3 cups (.75 liter bottle) dry red wine. Cover and continue to simmer for 1 hour longer. Let cool slightly, then pour through a colander, discarding bones and vegetables. Cover and chill broth; lift off congealed fat. Add meat to broth and cover and chill 1 to 2 days (or freeze).

To serve, thaw if frozen; then measure broth and add enough regular-strength beef broth (or beef bouillon cubes dissolved in water) to make 6 quarts. Heat to simmering, then season to taste with salt and pepper.

Dessert station. You'll need 1½ to 2 dozen baking-powder biscuits and about 8 cups peeled and sliced peaches (sprinkle with lemon juice to prevent discoloration). Or use 2 bags (1 lb. *each*) thawed frozen peaches. Sweeten to taste with sugar. You'll also need 3 cups whipping cream; beat until stiff, flavoring with sugar and vanilla.

Raspberry sauce. In a pan, combine 2 tablespoons cornstarch with 1 cup sugar. Stir in 1 cup water. Add 2 packages (10 ounces *each*) partially thawed frozen raspberries and 4 teaspoons lemon juice. Cook, stirring and breaking apart the berries, until sauce boils and thickens. Remove from heat and stir in 3 tablespoons orange-flavored liqueur.

Walk-around brunch

For this easy-to-give brunch party, you could shop for everything or bake some or all of the breads yourself. You could even substitute a deli spread and plain cream cheese for two of the spreads suggested.

If space is limited, offer guests plates (paper throwaways are fine) at the breads station so they can collect an assortment and move on.

Juice and champagne station. Provide pitchers of fruit juice, such as grapefruit, papaya, or pineapple; plan on 1½ or 2 cups per person. Set out fresh oranges, lemons, and limes with a cutting board, a sharp knife, and a juicer. Purchase splits or large bottles of champagne and keep them cold in a large ice bucket.

Breads-and-spreads station. Offer an assortment of breads such as croissants, small brioches, bagels, or muffins (2 or 3 per person)—and 2 or 3 large coffeecakes or sweet breads. Set out about half the breads at a time so they stay fresh. Provide knives and a cutting board.

Set out hard-cooked eggs (at least 1 per person) with salt and pepper, ½ to 1 pound of sweet butter, and about 1½ cups of your favorite jam. Other spreads can be prepared up to 3 days ahead.

Ham-and-egg spread. With a food processor or knife, mince 1 pound cooked ham; also finely chop 6 hard-cooked eggs. In a bowl, combine the ham, eggs, and ¾ cup chopped green onion. Stir together ⅔ cup mayonnaise, 3 tablespoons Dijon mustard, and 2 tablespoons white wine vinegar; season with salt. Stir dressing into ham mixture; chill until serving time.

Orange-cheese spread. Beat 2 large packages (8 oz. *each*) cream cheese (at room temperature) until smooth. Blend in ½ cup orange marmalade. Bring spread to room temperature if made ahead.

Fruit and yogurt station. Allow at least

Brunch beverage station *offers fruit juices by the pitcher, plus fresh citrus to squeeze. Blend juice with champagne, if you wish*

Stop for a cup *of cold yogurt, then experiment with toppings*

GLENN CHRISTIANSEN

The main event *is an assortment of rolls and breads with a choice of sweet and savory spreads and hard-cooked eggs. Wind up with a slice of coffee cake to go with coffee or tea*

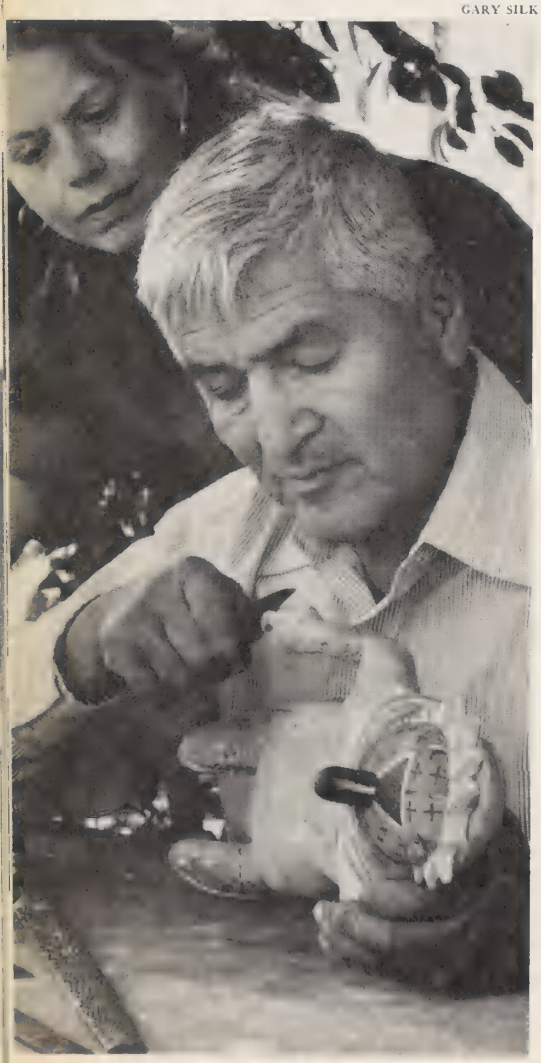
½ cup unflavored yogurt per person; keep cold in ice. Offer with about 3 of the following, allowing 2 cups of each: sliced strawberries, blueberries, raspberries, drained mandarin oranges, and granola or chopped nuts. Set out a small pitcher of honey or a bowl of brown sugar. □

Nothing-to-it brunch. Serve champagne and/or juices. Then breads and spreads

Hopi Kachinas throng to California

It's the West's first-ever touring Kachina exhibit. First stop is San Francisco, May 22 to September 1

GARY SILK



Dried root *of a cottonwood is slowly transformed into Kachina doll by Hopi carver Hubert Honanie*

Elaborately carved and colorfully detailed, Hopi Kachina dolls have been prized by collectors of Indian art since the turn of the century. Over the years many of these private holdings have formed the heart of important Western museum collections of Hopi art.

This summer outstanding examples of Kachina dolls from such collections are being brought together for the first time at the California Academy of Sciences in San Francisco. Assembled by academy curators with help from the directors of the Hopi Cultural Center Museum on Second Mesa, Arizona, the exhibit will be in Golden Gate Park May 22 through September 1, then start a two-year national tour.

Titled "Hopi Kachina: Spirit of Life," the show uses more than 150 Kachina dolls to illustrate two key Hopi ceremonies. The designers have artfully combined mural-size photographs of actual ceremonies with two painstakingly correct models of Pueblo villages that showcase many of the Kachina dolls.

For visitors, the effect is almost like being part of a Kachina ceremony, and the total exhibit goes a long way toward explaining the complex Hopi culture.

Hopi philosophy has proved as durable as the Hopi people, surviving the zeal of the 16th-century Spanish missionaries as well as the pressures of 20th-century economics. It is the reason anthropologists describe the Hopi as America's oldest continuously surviving culture.

Important elements in that philosophy are the Kachinas—supernatural beings who mediate between men and the spirit world to bring rain, increase fertility, and ensure good harvests. During pueblo ceremonies, Kachinas emerge from the kiva to sing, dance, and pray for a successful growing season. These dancers still give carved likenesses called *tihu* or

DARROW M. WATT

Giant hand *arranges décor of downsize room in model's detailed interior*

dolls to young girls and women. Kachina dolls are treasured possessions since they too are representations of a Kachina and are imbued with its spirit.

In spite of the religious associations, the dolls themselves are not considered sacred, and a number of Hopi artists now carve them for sale. Depending on size and quality, dealers get $100 to $500 for a figure.

Two of the most important Kachina ceremonies are *Powamu* (Bean Dance) in February, when hundreds of dancers call for successful germination of crops, and *Niman* (Home Dance) in July, when the Kachinas are thanked for a successful growing season before returning to their home in Arizona's San Francisco Mountains.

Academy of Sciences designers have

GLENN CHRISTIANSEN

On plaza *of scale-model pueblo, foot-high Hopi Kachina dolls include the clown Mud Head in foreground and, clockwise, Spotted Corn, Flower, Kokopelli (fertility), Cholla Cactus*

used these ceremonies as the focus of the exhibit. Kachina dolls on the scale-model pueblos appear to be life-size dancers in a real village. Carefully timed lighting shifts heighten the sense of motion, and little effort is required to imagine yourself at an actual ceremony.

The rest of the displays complement this effect. A continuous audio-visual presentation shows the rugged mesas of the Hopi reservation and day-to-day life in modern villages. From a kiva come ceremonial songs and chants. There are kiva murals from the Awatovi ruins, examples of America's earliest wall art. Oversize murals of pueblo scenes and displays of artifacts enhance the feeling of being in a pueblo village.

Allow a few extra minutes for the last presentation. This audio-visual program of modern Hopi talking about their way of living is the final knot tying together the relationship between Kachinas and the village life that has enabled their culture to endure.

The exhibit is open during the academy's regular hours: 10 to 5 daily through July 3, then 9 to 9 through September 1. Admission is $1 for adults, 50 cents for seniors and youngsters 12 to 17, 25 cents for children under 12. The #10 Monterey bus stops at the museum, which is just off John F. Kennedy Drive in Golden Gate Park.

On most weekends through at least June 29, there will be demonstrations and lectures on Hopi arts. Programs generally run from 11 A.M. to 3:30 P.M. with a lunch break. Demonstrations will feature Hopi silversmith Michael Kabotie, May 25 and 26; anthropologist Robert Black playing Hopi music, June 7; Hopi Kachina carver Hubert Honanie, June 14 and 15; Hopi potter Harriet Young, June 28 and 29.

Elsewhere in the West, two museums containing some of the finest collections of Hopi Kachina Dolls will have their permanent exhibits on display.

In Los Angeles, the Southwest Museum (234 Museum Drive in Highland Park) has a collection dating from the turn of the century. It's open daily except Monday from 1 to 5; free.

In Phoenix, the Heard museum (22 E. Monte Vista Road) usually has about 100 dolls on display. It's open daily from 10 to 5 (1 to 5 on Sundays); admission is $1.50 for adults, 50 cents for youngsters age 12 and under. □

BILL ROSS

Adding a splash *of color to this patio in Azusa, California, bright purple 'Crimson Jewel' and pinkish gold 'Rosenka' cascade down from hanging planters*

What's new with the bougainvillea showoffs?

New basket plants, more colors, and best of all, some subtlety

'California Gold' *boasts unusual gold blooms that vary as they age from bright yellow-gold to rose*

Canopy *of brilliant red 'Barbara Karst' covers lath arbor next to game court; Reiss home, Solana Beach, California*

NORMAN A. PLATE

Frothy blooms *of 'Jamaica White' decorate stucco wall. She's snipping bougainvillea branches and pink Japanese anemones for cut-flower arrangement*

Packed with color, *double 'Manila Red' has up to 36 flower bracts per cluster*

Pushy floozies—that's how some people regard bougainvilleas. The most popular varieties, rambunctious vines decked out in gaudy purplish red blooms, probably have helped earn this reputation.

But you can now buy bougainvilleas with more subtle charms—varieties that are slower growing, more compact, and with blossoms in a wide range of colors including soft gold, pink, rose, and white, as shown in the photographs above and at left. There are shrubby kinds and double-flowered varieties that even adapt to container living if you keep up with the pruning (see page 190).

And even the knockout reds and purples can come into their own, clambering up the side of a white stucco house, sprawling over a tile roof, or decorating a sunny bank or arbor (see 'Barbara Karst' on the trellis pictured above).

To help you choose among this wealth of bougainvilleas, the chart on the next page lists the varieties most widely available in nurseries. The plants are divided into three major categories: 1. vine type (the standard bougainvilleas), which are further divided by color; 2. shrubby (the more compact types that stay less than 4 feet high; and 3. double-flowered bougainvilleas (with multiple flower bracts), which are either vine or shrub types.

Of the vine types, the reds and purples are most widely sold and tend to have the most spectacular flower displays that last the longest—from May to November in mild areas.

The pastel pinks and whites do not bloom as profusely or over as long a season, and tend to be somewhat less hardy. But their more subdued colors blend in more readily with other landscaping. In hot desert

areas, the pinks do not hold their rich color as long as the reds and purples.

Excellent bloomers, the golds change color as they age from shades of amber and gold to salmon and pink.

The shrubby bougainvilleas are perfect for containers and are a particularly good choice where winters are cold, since you can move them to a protected spot. They also make good bank covers in warmer climates.

Double-flowered bougainvilleas make exceptionally showy plants with long-lasting blooms. But they do tend to hang onto the faded flower bracts longer than standard bougainvilleas. You may prefer to pick off the faded blossoms to keep plants neat.

Planting: when, where, how

Summer is the best time to plant bougainvilleas, since the heat helps them get off to a fast start. And nursery specimens will be in bloom now, so you can see the flower colors. (Be sure to ask if you are looking at greenhouse-grown specimens, however, since the color on these is deceptively subdued.)

Choose a spot with fast-draining soil that gets full sun at least half the day (bougainvilleas in the shade have fewer blooms with weaker color). Where frost is a possibility, plant them against a warm south- or west-facing wall or beneath a south or west overhang, since most varieties are susceptible to damage when temperatures drop below 32°. However, most do recover readily from superficial damage.

Remove the plants very carefully from the nursery cans to avoid damaging the delicate root system (do not pull the plant out by its stems). To prevent breaking the rootball, either remove the stake first or make sure it is supported firmly as you slip the plant from its pot. Tie vining types securely to a trellis, stake, or other support after planting so they won't be whipped around by the wind.

Bougainvilleas bloom best when not pampered with too much water and fertilizer. Give one feeding in spring. After frost is past in spring, you can do major pruning to remove damaged wood and shape the plants. □

Viny or shrubby, color by color, here are bougainvillea choices

	Variety	Color*	Notable features
VINES			
RED	Barbara Karst	Purplish red	Top seller; outstanding bloomer, good in desert, fast comeback after frost
	Camarillo Fiesta	Vermilion red	New variety, variant of San Diego Red; red blooms develop orange tint
	James Walker	Cherry red	Recent introduction from South Africa; extra-large blooms on vigorous vines; prolific
	San Diego Red (Scarlett O'Hara)	Deep, clear red	Hardy; high-climbing rambunctious vine, excellent on coast; tends to bloom in one big splash; as blossoms age, develop Barbara Karst tint
PURPLE	Bougainvillea spectabilis	Magenta-purple	Granddaddy of bougainvilleas, also sold as *B. brasiliensis;* dependable, prolific; stands considerable frost; lime green leaves
	Convent	Magenta-purple	Cutting-grown selection of *B. spectabilis;* moderately vigorous
	Select Purple	Deep red-purple	Large flower bracts with deep color of *B. spectabilis;* light green foliage; fast growing
PINK	Rosea	Muted rose	Very frost tender, blooms late fall, needs strong sunlight; fuzzy leaves
	Southern Rose	Pink to lavender	Color varies with individual plant from bright lavender to clear pink
	Texas Dawn (Pink Tiara)	Intense purplish pink	Widely available; fast growing, hardiest pink; medium green foliage
GOLD	Afterglow	Gold to pink	Shows pink as blossoms age, may revert to red; moderately vigorous
	California Gold	Gold to rose	Clearest color of the golds when bracts first appear; light green leaves
	Gerry's Orange	Orange to rose	New introduction, variant of San Diego Red; heavy bloomer over long season
	Isabel Greensmith	Orange and cerise	Bracts range from orange to cerise on same plant; bloom not prolific
	Orange King	Orange to salmon	Popular; holds color longest, best bloomer of golds; older bracts turn salmon
	Rainbow Gold (Select's Rainbow)	Orange to pink	Variant of Barbara Karst; bright orange blooms develop pink blush; vigorous
WHITE	Jamaica White	White with pink blush	Blooms develop a pink tint as they age; sulks in chilly weather, but somewhat hardier than other whites
	Mary Palmer's Enchantment	Clear white	Fast growing; medium green foliage, abundant blooms
	White Madonna	Creamy white	Moderately vigorous vine; light green foliage
SHRUBS			
	Brilliant Variegata	Red and orange	Unusual leaves, yellow with green variegation; two-tone blooms
	Crimson Jewel	Vivid magenta	Compact growth adapts especially well to containers; heavy bloom over long season
	Hawaii (Raspberry Ice)	Cherry red	Green leaves variegated with cream, yellow; slow growing, good bank cover
	La Jolla	Bright purplish red	Good as shrub border, in pots; vibrant color, thick bushy growth
	Rosenka	Gold and pink	Neat, mounding habit with occasional upright shoots; multicolor blooms
	Temple Fire	Orangish magenta	Old standby; blooms best in low desert, few blossoms on coast; new leaves bronzy
DOUBLE-FLOWERED			
	Carmencita	Brilliant cerise	Variant of Barbara Karst; dense growth with minimum pruning; vine tender
	Cherry Blossom	Rose-pink	Vivid rose bracts with prominent white to light green centers; vigorous
	Doubloon	Orangish gold	Rich golden blooms on compact, shrubby plants; medium green leaves
	Manila Red	Purplish red	Showy extra-large clusters of blooms; rambunctious vine with deep green leaves
	Tahitian Maid	Deep pink	Slow growing, shrubby, adapts to containers; blooms over long season

*Bougainvillea color comes from the colorful bracts that surround the inconspicuous flowers

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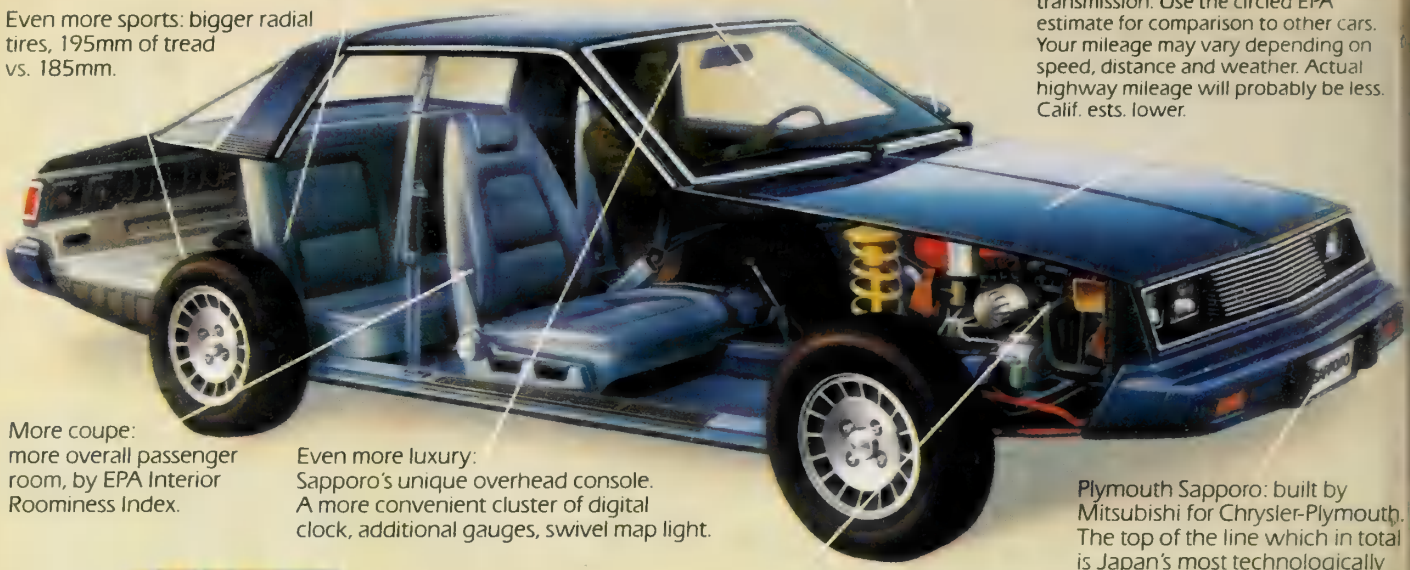

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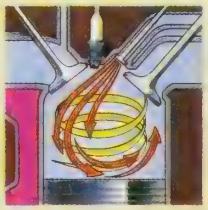

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She enters room *where front door formerly was. Heat loss isn't a big factor in this temperate Southern California climate*

A treehouse-airy living room

A glass shed off the north side of this Los Angeles living room makes it treehouse-airy—and also encloses entry stairs that used to demand an unsheltered climb to the front door.

Malibu architect Ron Goldman removed the old living room wall and built a new one on the far side of the brick steps. He used fir 3 by 6's, 2 feet apart, to frame the slant-roofed glass shed. Over support members, sheets of ¼-inch clear tempered glass were fixed in place with two-faced butyl tape. On the beams, where the glass sheets nearly meet, he screwed U-shaped metal channel into the wood, then caulked with silicone. □

RICHARD FISH

Entry stairs, *now glassed over, are light enough for growing plants. Bold handrail hangs on the former exterior wall*

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NORMARK

The warm tones of fir *frame this bed's box spring. Bedspread or quilt slips down inside frame, giving it a neat appearance*

THE SURPRISING CONVECTION

TEFLON II

Other items ma
by Toastma
use DuPo
non-stick coating

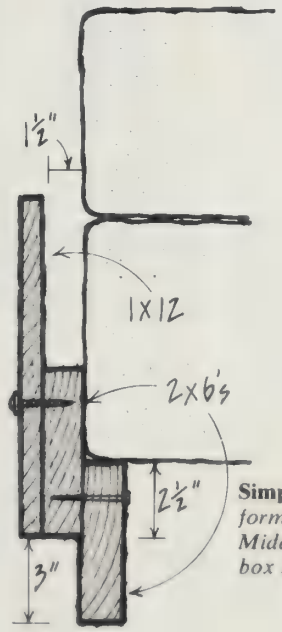
Neat fir frame hides the box spring

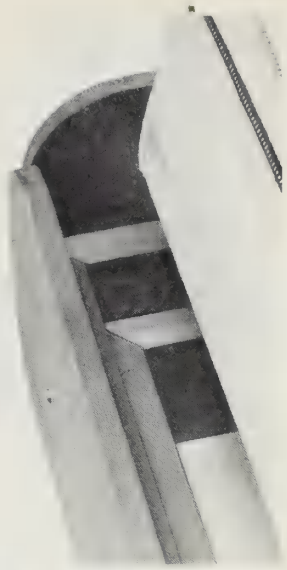
Three boxes—that's all this bed frame is: two to support the box spring, and one to hide it. Seattle architect Michael Canatsey built it for about $30 three years ago; at current prices, the lumber would cost about $60.

To keep the cost down, he used construction-grade lumber for the 2 by 6's, then used select-grade fir for the 1 by 12's. He framed a queen-size mattress and box spring with four 2 by 6's miter-cut to the size of the box spring—in this case their *inside* dimension was 60 by 80 inches. Next he miter-cut four more 2 by 6's to form another rectangle with *outside* dimensions of 60 by 80 inches for the box spring to rest on.

Then he joined the corners of each rectangle with glue and countersunk 3-inch-long woodscrews (instead, you could attach metal corner braces on the inside). He slipped the two rectangles together so they overlap 2½ inches; 2½-inch (8d) nails, driven from the inside, hold them together.

After cutting the 1 by 12's to 63- and 83-inch lengths, he rounded the corners to a 3-inch radius with a saber saw (you could use a jig or coping saw). Two-inch woodscrews set in finishing washers, 9 inches apart and 3 inches up from the bottom edge, hold the 1 by 12's to the 2 by 6's. He painted the toespace black and finished the 1 by 12's with urethane. □





Corner detail *shows miter-cut 2 by 6's stacked in corner. Box spring sits on interior boards*

Simple stack *of lumber forms frame sides. Middle 2 by 6 keeps box spring firmly in place*

OVEN FROM TOASTMASTER.

IT DOES MORE THAN YOU'D EXPECT.

You're looking at the most versatile convection oven sold in America today.

The Toastmaster System 4™ Convection Oven.

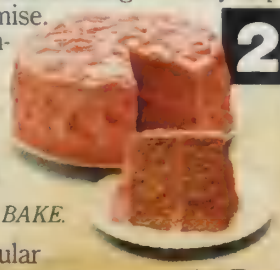
It's a true convection oven, engineered with reliable forced-air cooking to enhance the quality of so many foods. But unlike any other convection oven, it also offers three traditional cooking methods, which means that now you can have convection cooking without compromise.

1

BROIL.

Those four big numbers you see on the dial give you four different choices.

Selection number 1 is for regular broiling. Steaks, fish and certain other dishes still cook best and look best when top-broiled with direct radiant heat.



2

BAKE.

Turn the dial to selection number 2 for regular baking. Often, it's the best way to prepare the delicate dishes, such as souffles, cakes and other desserts.

3

SLOW-COOK.

To prepare a full-course meal over a six to eight hour period, turn the dial to number 3, for slow-cook. It cooks all day while the cook is away from the kitchen, yet is remarkably energy-efficient.

When you turn the dial to number 4, you have a true convection oven, which uses forced-air for more even, more thorough cooking.

4

CONVECTION.

The constant gentle flow of forced heated air over, under and around foods seals in natural juices and reduces total cooking time. Less cooking time means even less energy consumption, a very cost-efficient way to prepare natural-looking, natural-tasting family meals.

There's more to the surprising new Toastmaster Convection Oven.

It comes with two bake racks, a three-hour timer and features a continuous-cleaning interior to help the oven clean itself at normal baking temperatures.

Four essential cooking methods in one countertop convection oven make the Toastmaster System 4 quite a surprise. But the most pleasant surprise of all is that while the Toastmaster Convection Oven does more than you'd expect, it costs far less than you'd expect for such a versatile kitchen essential.

The Toastmaster Convection Oven. It's engineered, designed and priced to make it right at home.

McGRAW-EDISON

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Encon has taken the old-fashioned ceiling fan, added modern technology and created a fan for today. A fan that blends with or complements the decor of your home. A fan that can save you 50% on heating and cooling costs. Beautiful. The way they look . . . the way they work . . . and the way they save you money. Encon . . . the only fan built specifically for energy conservation.

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Energy Campaign
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NORMAN A. PLATE

Shed-roofed addition *uses recycled parts: big-paned end window and lap siding came from exterior wall removed to make 8-foot-wide opening to new room*

French doors *along side walls open new pavilion-like room to deck for easy circulation*

New dining room in three days?

Three days before their scheduled party, the owners of this Orange County house decided that a real dining room was just what the entertainment called for. Undaunted by the time pressure, Darlyne Woodward and Martha Collison drew on past remodeling experience to build a simple post-and-beam structure.

They removed an exterior wall of the former dining alcove and took advantage of an existing outdoor deck—actually the roof of under-the-house storage—for flooring. Room size—8½ by 14 feet—was determined by the deck's width and the dimensions of a big skylight and a window from the demolished wall.

To support the roof, Woodward and Collison anchored 4-by-4 posts to the deck and joists below. Between posts they nailed beveled 1-by-6 sills. French doors take the place of side walls, and the end wall gets light through the recycled window. Interior paneling is tongue-and-groove spruce 1 by 6's stained driftwood gray; underneath, half-inch plywood sheets give lateral bracing.

The owners framed the skylight with salvaged, sandblasted 3-by-6 beams and paneled the ceiling with more tongue-and-groove spruce. Painting, staining, and wiring for the central chandelier all came after the unveiling party. □

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"State Farm has built a reputation on low rates, so you know going in you'll get a good value.

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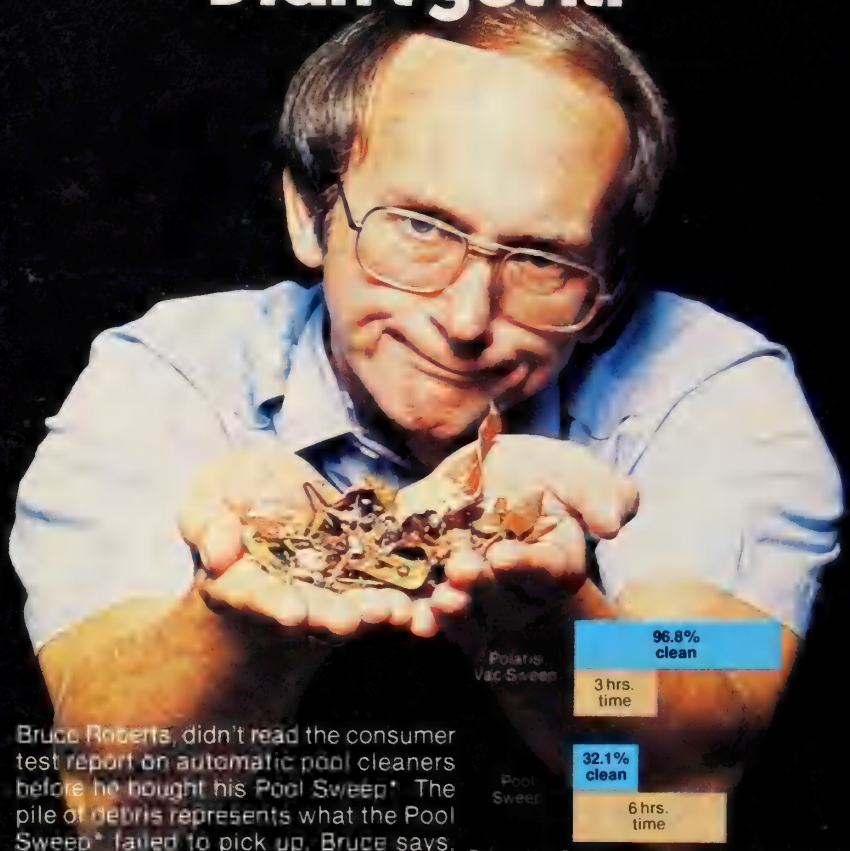
Because my Pool Sweep® Didn't get it!



Bruce Roberts, didn't read the consumer test report on automatic pool cleaners before he bought his Pool Sweep.* The pile of debris represents what the Pool Sweep* failed to pick up. Bruce says, "Any activity in the pool would knock debris back into the pool."

Polaris Vac-Sweep outperforms Pool Sweep* three to one. Write or phone us for a copy of the independent laboratory report and a free copy of Nancy P. Bruning's "Swimming for Fitness."

After two months, Bruce's frustration level peaked and he spent even more money to replace his old-fashioned Pool Sweep with Polaris Vac-Sweep* the only automatic pool cleaner that both *vacuums* the floor and *sweeps* the walls. In three hours or less the Polaris Vac-Sweep cleaned the pool with a significant savings in time, energy and nerves. The Polaris Vac-Sweep vacuums large debris into a self-contained, easily removed bag; sand and silt into a disposable bag. And the Polaris Vac-Sweep operates under Bruce's energy conserving pool cover.

Bruce reports, "all my problems have been eliminated – no more sowbugs or pepper pods and the sides of my pool are cleaner." If you feel like Bruce – see your Dealer for details on a $50 trade-up program.

When you're ready for a really clean pool; you're automatically ready for Polaris Vac-Sweep.

POLARIS VAC-SWEEP®

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*Pool Sweep is a registered trade-mark of Aquaflow Products, Inc.

PETER O. WHITELEY

Butcher-block counter *is 31 inches high; there's room for a stool underneath*

Sliding out *on heavy-duty glides, lower level becomes a handy buffet*

Kitchen nook is multi-useful

Careful planning can make one space serve many uses in a small kitchen. The spot where Monica and Jim Edmund keep their telephone, calendar, and cook books has a butcher block counter with a pull-out extension. Opened out, it serves as a buffet, a chopping block, or an informal breakfast table.

The work center nook built into the cabinetry is 35 inches wide, 60 inches high, and 23 inches deep.

Design is by The Houseworks of Berkeley, California. □

Vera paints an irresistible garden, "Cheshire Court". It comes in sheets and pillowcases of no-iron percale, 50% CELANESE FORTREL®, 50% combed cotton. Bedspreads also available.

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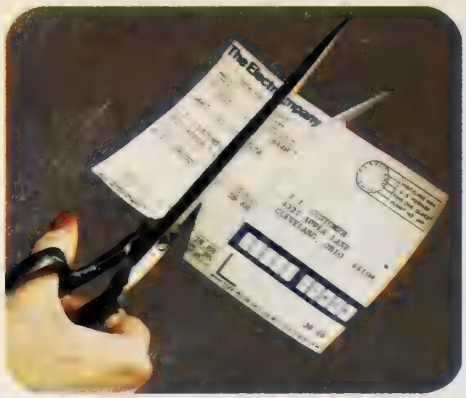


HOW KITCHENAID CAN SAVE YOU 10% OR MORE ON WATER HEATING COSTS.

Other than your central heating and cooling system, nothing in your home consumes more energy than your water heater.

That's mainly because of your dishwasher.

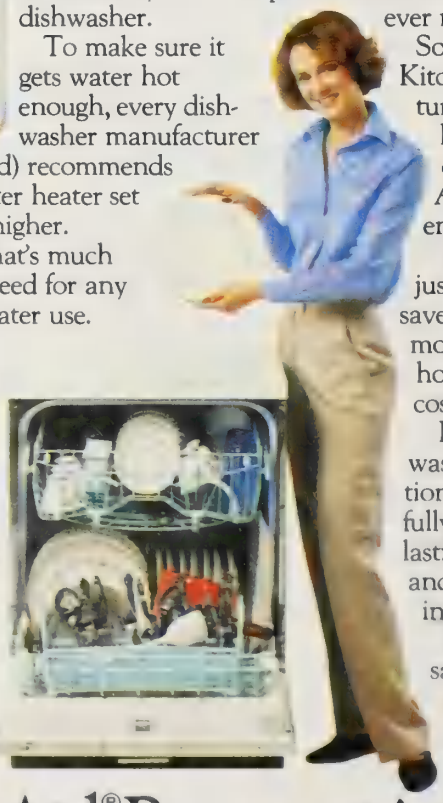
To make sure it gets water hot enough, every dishwasher manufacturer (except KitchenAid) recommends you keep your water heater set at 140 degrees or higher.

In most cases, that's much higher than you need for any other home hot water use.

(A good, hot shower, for instance, is about 110 degrees.)

But now all KitchenAid Energy Saver IV Dishwashers—and only KitchenAid Energy Saver IV Dishwashers—automatically heat their own water to the right temperature in every complete cycle for sparkling clean, sanitized dishes.

And, surprisingly enough, using 120 degree input water, our new dishwasher uses less energy to operate than any dishwashers we've ever made.



So now, with KitchenAid, you can turn down your water heater. Keep it set considerably lower. And save money and energy.

If you turn it down just 20 degrees, you'll save at least 10%, maybe more, on your total home water heating costs.

KitchenAid dishwashers have a reputation for cleaning beautifully, running quietly, lasting a long time, and hardly ever needing repairs.

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Hobart Corporation, Troy, Ohio 45374

BILL ROSS

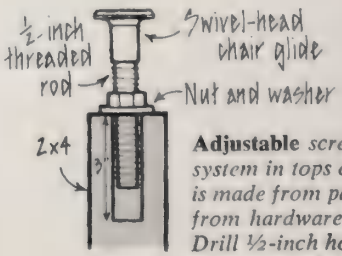
Freestanding *bookshelves lock in position with top-mounted screw system. Readjust screws after shelves are loaded*

Three "ladders" hold up bookshelves

Ladder-like supports built from 2 by 4's and 1⅜-inch closet rod carry the weight of 2-by-10 shelving in this knock-down bookcase. Each leg of the ladders measures 94 inches, and an adjustable screw system locks them into position against the ceiling (see sketch).

Although the bookcase takes up 6 feet of wall space, only two of its shelves run the full width. This means that the center ladder has more rungs than the outside two and that shelf and dowel spacing must be worked out in advance.

Countersunk 2-inch-long woodscrews hold the rungs in position. (The rungs are recessed ½ inch into the inside face of each ladder.) Short lengths of ⅜-inch dowel cover the heads of the screws. Dark stain and several coats of mat lacquer sealed the wood. Cost of materials was about $60. □



Adjustable *screw system in tops of legs is made from parts from hardware store. Drill ½-inch hole in top of each leg*

Now you see him. Now you don't. Flash! I got the shot anyway.

Just when I wanted a second shot of my son Chris on the beach one evening, he did the great cover-up. Which, for me, created an even better shot.

Taking on-the-spot pictures is easy with my Kodak Tele-Ektralite 20 camera. Because the flash is built right in, I'm always ready in a flash to tell my family's stories in sharp, clear pictures.

And with the built-in telephoto lens, it's like getting twice as close. Kodak Tele-Ektralite 20. That's one easy, aim-and-shoot camera.

Kodak Tele-Ektralite 20 camera.

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CORNING

DARROW M. WATT

Platform bed *with drawers and cupboard underneath helps organize space in small, added-on bedroom*

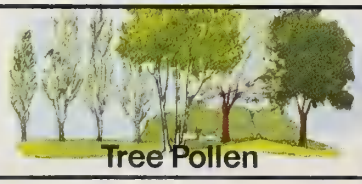
Daylight above and beside, storage below and alongside

This 120-square-foot bedroom addition is as tightly planned as a ship's cabin. Architect-owner Violeta Autumn of Sausalito, California, designed it to give its young occupant maximum use of the space available between two existing parts of her hillside house.

The room's core is a 39-inch-high platform bed, reached from 2-by-4 steps at one end of an adjoining mahogany-topped desk. Under the bed, drawers and cabinets of vertical-grain Douglas fir and redwood store toys and foldable apparel; longer clothes hang in a 5-foot-tall closet to the right of the bed. A window-level shelf runs around three sides of the room, holding a stereo, a television, plants, and books.

The three windows above the bed plus an overhead skylight let in plenty of light. A two-part horizontal shade can be pulled across part or all of the skylight. □

Animal Dander


Tree Pollen

Bermuda Grass

House Dust

Ragweed

Goldenrod

Plantain

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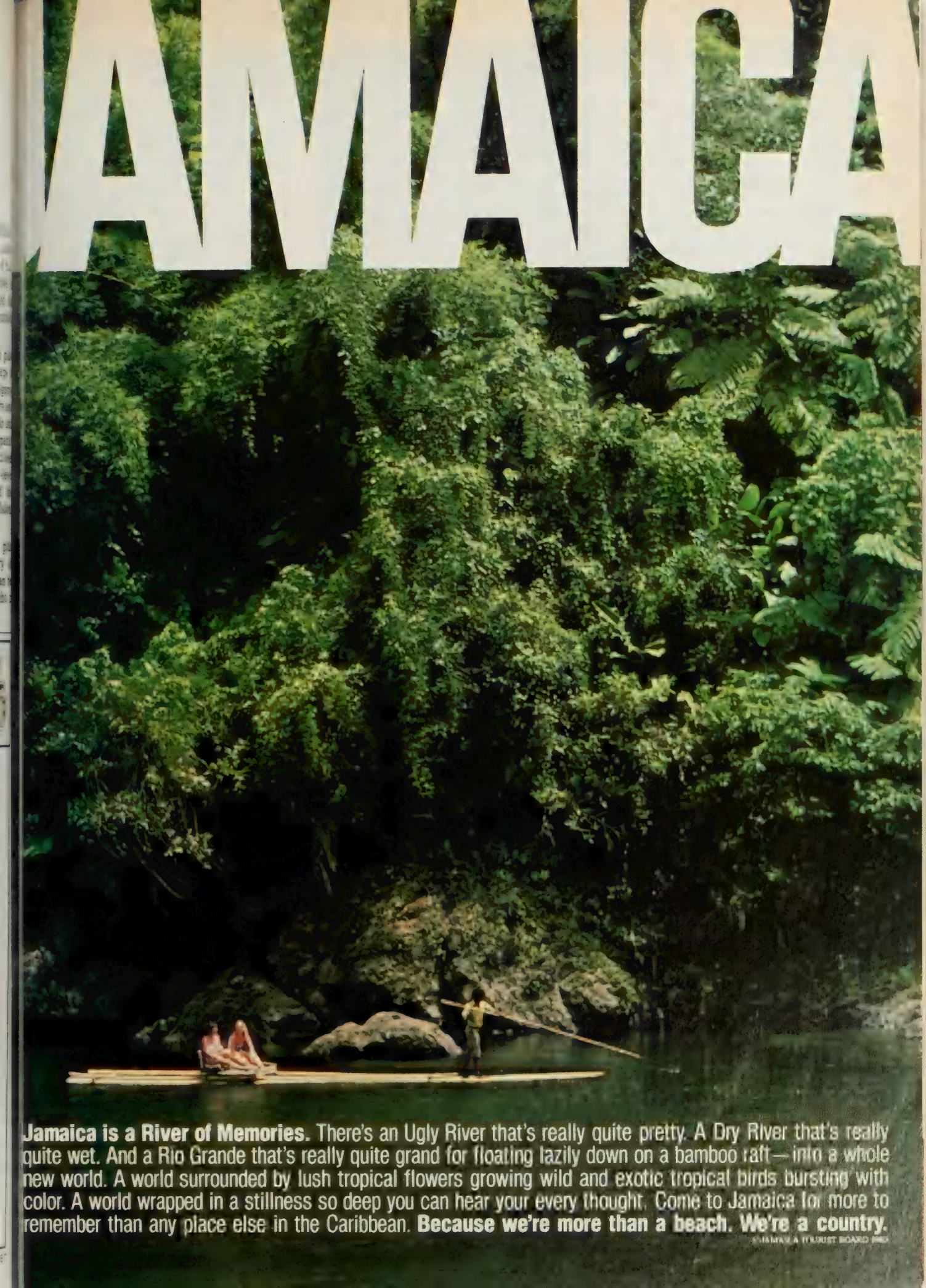
A·H·ROBINS



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Water-repellent wood preservative.

ROB SUPER

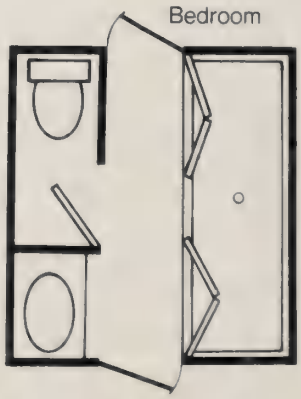
Sink alone *is open to the hallway, which can be closed off at either end*

Semiprivate bath is also a hall

Owner-designed remodels can sometimes result in less than perfect floor plans. Gained space in Charles and Regine Godfrey's Berkeley, California, house created one big problem—they had to use a bathroom as access to the new bedroom.

Remodeling turned the bathroom into a corridor, with enclosures around the toilet and shower so that either can be used without the corridor being sealed off. Bifold doors take the place of a shower curtain; a single hinged door closes off the toilet.

Doors at either end of the bathroom provide privacy for the new bedroom. □



Corridor bath *connects new bedroom with rest of house. Bifold doors closing off shower are made of acrylic panels framed in wood*

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UTICA™ TOWELS

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NORMAN A. PLATE

Billowy loops *of bright blue cotton help temper the summer sun. The top edge of the fabric is fixed to the sloping frame just below a row of vent windows. Dowels sewn into the bottom of the fabric and at two intermediate points allow four different positions: all three dowels can be piled behind the two-screw stops, leaving two short loops; the bottom panel can be moved to a second stop midway on the frame (as the owner is doing above); the middle panel can be moved to the second stop with the bottom panel rolled up; or the bottom panel can hang down, as at right. Owners: Karen and Steve Brothers, Oakland*

1· *Movable ½-inch dowels (above), cut wider than fabric shades, rest on pairs of self-tapping screws set at the top and midpoint in frames of this aluminum greenhouse section. The shades can be extended to hang to bottom of window*

Shades as slow-downs

For sun, glare, heat, even cold. Indoors or outdoors

NORMAN A. PLATE

2 • *A push pole is used to slide these 2-foot-wide fabric panels up a glassed-in shed-style roof. The three supporting dowel rods sewn into each panel have a woodscrew and washer at each end; the washers roll like little wheels inside T-shaped channels routed into wooden tracks along the 2-by-8 rafters, as seen below. Design was by Joseph Ju-Yii Lee, who also did the silk-screened wedding flower children*

Glass overhead may achieve bright, sun-filled rooms that seem less confining—but at times glass ceilings can also make a room uncomfortably bright, or too hot or cold due to heat radiation. Here are four overhead cover-ups designed to control heat and light.

Adjustable fabric panels in numbers 1 and 2 provide shade in the form of overhead sculpture. After the sun goes down, the fabric also lends a feeling of warmth. When choosing fabric, look for one that is fade resistant and treated with a fire retardant.

Numbers 1 and 4 (see next page) were designed to work with the round-shouldered commercial greenhouse sections that have become a popular way to build a glass room. The lean-to addition (number 4) is shaded with exterior roll-down

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aluminum shades made by the greenhouse manufacturer.

The little sliding panels below (3) shut out light in a small room addition. Made of plywood-backed acoustical fiberboard, they also provide some insulation. □

DAVID STUBBS

3 ▪ *Window shades in popout roof are 10- by 22-inch panels of acoustical fiberboard and plywood. Each panel slides in its own side tracks, defined by ⅝-inch-square redwood strips nailed to the frames. The tracks taper just enough to bind the panels slightly when they are pushed up. Design: Wayne Leong, St. Helena, California*

JOSEPHINE COATSWORTH

4 ▪ *Manufacturers of the greenhouse sections in use here (Lord and Burnham) make these matching outside aluminum roll-down shades. The glass-sheltered garden room is at Chris and Marilyn Jones' remodel in Mill Valley, California*

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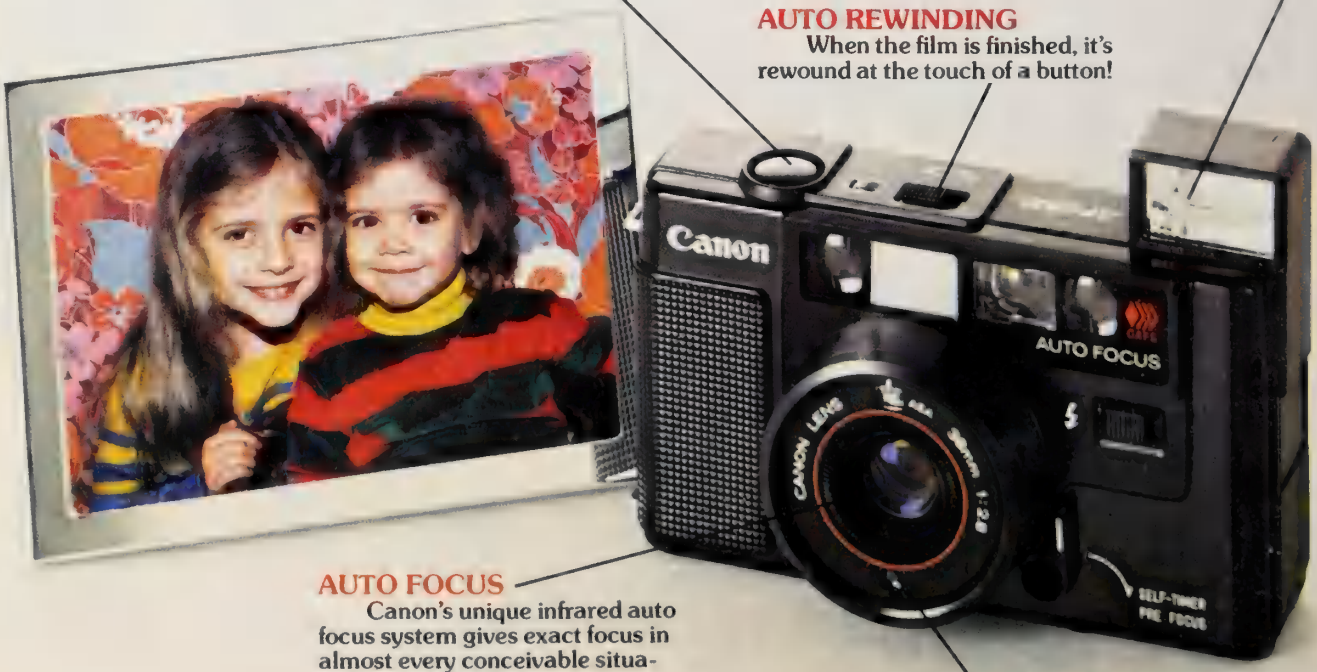

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NORMAN A. PLATE

Sleek pot rack *hangs between kitchen beams. Longest bars, bent at ends and lag-screwed to beams, support rest of rack*

Chrome pot rack made to order

Seven chrome bars notch together as a gleaming rack for pots and cooking utensils. Three inches wide and ¼ inch thick, they interlock with cross-lap joints.

Architect Leason Pomeroy of Orange, California, took sketches of his idea to a metal-working shop, found under Metal Cutters in the yellow pages. There he had steel bars cut to length: two 5-foot bars to span kitchen beams; four 3-foot bars to form a square on top of the support bars; and a 2-footer to rest across the middle of the longest bars.

Pomeroy had the bars chrome-plated (look under Chrome in the yellow pages). With pliers he shaped ⅛-inch-diameter steel wire into S-hooks for utensil hangers. Cost: less than $200. □

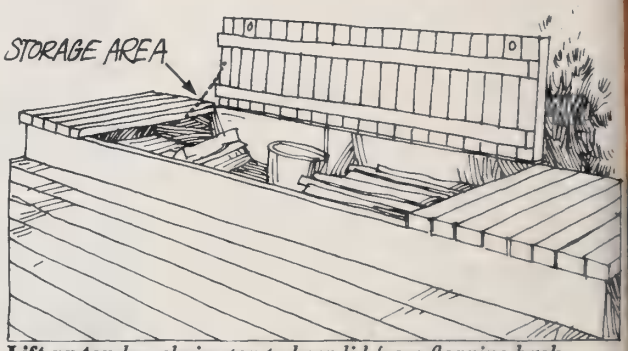
Slots *cut in bars allow close fit. Auto chrome polish shines them up*

NORMAN A. PLATE

Widened at one end *to 4 feet, this deck bench can also serve as table*

ELLS MARUGG

Slanting back *on this bench also functions as rail. Its paired posts are 2 by 12's bolted to deck's substructure*



Lift-up top *has chain stop to keep lid from flopping back. Bench storage is just one of many ideas in new deck book*

NEW SUNSET BOOK

Decks and what goes with them . . . like built-in benches

Hinged top *of this one lifts for access to garden equipment. Top could be built solid to keep rain out*

JACK MCDOWELL

Built-in benches around a deck can do more than just provide seating. They can become storage areas. They can serve as platforms for sunbathing, plant display, dining. They can channel foot traffic. They can work as safety barriers.

We show some handsome but practical examples of multiuse benches from the newly revised *Sunset* book *How to Plan and Build Decks* (Lane Publishing Co., Menlo Park, Calif. 94025, 1980; $3.95).

The conventional seating height for benches—between 15 and 18 inches—gives lots of room for storage underneath. Potting supplies, small tools, hoses, and brooms will all fit in these shallow bins.

On the underside of the top, a 2-by-4 or 2-by-2 strip should run parallel to the front supporting member and fit snugly against it to keep the top from sliding when closed. For strength in softer woods, use several leaf-type hinges along the top of longer bench seats.

Extra-wide benches may appear to take up an unnecessary amount of deck space, but actually they can save it. A broad 4- by 6-foot section of bench, like the one pictured above left, can serve as a sunbathing platform or buffet table—avoiding the need for space-consuming furniture.

On a deck that's not far off the ground, a bench can act as a low railing. For higher decks, part of the bench back can be built as a safety railing to help meet building code requirements. □

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JOSEPHINE COATSWORTH

Translucent fiberglass *built into wall-hugging trellis offers some shade and foul-weather protection*

Slender trellis offers shelter

This lightweight overhead trellis runs the width of a house in Point Richmond, California. Architect and builder Jay Betts intended it as a visual relief to a wall that rises to three stories.

But Betts has designed the trellis to be more than merely decorative. A flat sheet of thin, off-white translucent fiberglass is sandwiched between the lengthwise 2 by 4's and the upper 2-by-2 cross-pieces, helping to shade the front door and adjoining sliding glass doors and windows on this south-facing wall.

The fiberglass sheets also offer shelter from rain for arriving guests or for the owners, Jay and Marsha Ward, while they search for their keys. □

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Used under paint, on new or old bare wood, it improves adhesion of the top coat while it stabilizes the wood

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Old door gets new curves... with hardboard, wire, plaster

Soft curves *outline archway between dining room and living room*

DAVID STUBBS

Gentle plastered curves replaced the rectangular opening that once surrounded a badly deteriorated pocket door. Owner Bev Eden simplified the doorway by removing all molding and adding the curves.

After taking out the trim and the door, she blocked off the pocket door opening with a new stud. Next she made a template for the corner curves from a piece of ⅛-inch tempered hardboard and used it as a guide to add nailing blocks across the corners. She cut lengths of hardboard to the thickness of the wall, then nailed them to the inside face of the opening.

After cutting three more corner curves from the hardboard (two left-facing, two right-facing), she nailed them to the edge of the door frame. Ms. Eden finished the archway by nailing stucco wire to the hardboard and covering it with several coats of plaster. □

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PETER O. WHITELEY

Foiled again! *Simple gate halts young adventurer at foot of stairs*

This lightweight gate stops unauthorized exploration

Toddlers and stairways don't mix well, so parents keep them separated. When Marsha and Larry Kolb's son, Sammy, started lurching around their house, they knew it was time to act. They built a lightweight gate with a cloth screen that has kept Sammy out of trouble for more than a year. Materials cost less than $6.

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The gate pivots on a length of ½-inch dowel that runs through the open-ended T fittings. At the top, the dowel is secured to the wall by a screw running through it and a ¾-inch wood spacer. A hole drilled into the bottom of the dowel slips over a 1½-inch finishing nail driven into the stair tread.

The restraining screen is a loop of fabric that slides over the frame. (It can be removed for washing after many dirty-fingered assaults.) The gate catch, sewn to the upper corner of the screen, is a 1-inch-wide strip of cloth. It wraps around one baluster and closes on the stair side of the gate with heavy-duty metal snaps. □

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Olympic Overcoat®

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A & A Builder Supply, 6770 Folsom Blvd
Buckley's House of Built-Ins, 2442 Glendale Lane
Kitchens, Inc., 2015 "Q" St
Salinas
Bill Carpenter's Alisal Appl Ctr, 136 E Alisal St
San Francisco
Bob's Supply, 1665 Mission St
R. D. Schwalb Co., 1434 Howard St
Harry Young, 532 Columbus
San Jose
Miller's Home Appliance, 966 S Bascom
Western Appliance, 1976 W San Carlos
San Mateo
Culmer's Appliance, 123 W 25th Ave
R. Strait Appliance, 2240 S El Camino Real
San Pablo Dario's Appliance, 14253 San Pablo Ave
San Rafael
Martin & Harris, 739 A St
McPhails, 917 C St
Santa Clara
Johnson & Scanlan, 1111 El Camino
University Electric, 1391 Franklin
Santa Cruz
Burdick's TV & Appliance, 902 Soquel Ave
Haber's Furniture, 812 Pacific Ave
Santa Rosa
McPhails, 7th & Mendocino
Stockton
Mazzera Electric, 501 N Baker
Risso Electric, 1502 Palm
Sunnyvale Sunnyvale Hardware, 575 Sunnyvale Ave
Tulare
Canby's Inc., 1434 E Tulare
Gordon's Electric, 348 E King
Turlock
Youngdales, Market off West Main St
Ukiah Appliance Center, 512 S State St
Vacaville Lloyd Chandler Furniture, 331 Main St
Visalia ADC Inc., 3826 Mooney Blvd
Ruddy's, 1411 S Mooney Blvd
Walnut Creek
Contra Costa Appliance, 1100 Boulevard Way
Stevenson's Walnut Creek, 1531 Locust St
Yuba City Sutter Appliance, 673 Plumas St

NEVADA

Carson City
Baker Electric, 910 E William St
Valley TV & Appliance, 264 Winnie Lane
Reno Kitchen Factors, 2570 Wrondel
Sparks Osborne & Dermody, 506 E. Glendale Ave

Garden invades the kitchen ...thanks to pop-out window and skylight

RICHARD FISH

Outside, *light from skylight in overhang falls on new window and garden-laundry work center*

Tiled plant shelf *next to counter, 10 feet long and 1½ feet deep, fills window and extends outside as an easy-to-clean surface for potting chores*

The turning point in the life of this kitchen, remodeled bit by bit over the years, came when the owners replaced conventional windows with a glass pop-out and cut a skylight into the roof overhang to brighten indoors and out. A wide plant shelf in the pop-out continues outdoors as a work center over cabinets.

Rough-sawn cedar *1 by 6's panel walls and cabinets. Glass fits into ⅜-inch-deep groove routed in boards*

Owners Karen and Patrick Young strengthened the old window opening with a 4-by-10 beam, built the cabinets, and used two layers of ½-inch marine plywood for the shelf (later tiled). Douglas fir 4 by 4's form the windowsill, posts, and horizontal glass supports.

A sandwich of 1 by 1's around the vertical glass secures it to the 4 by 4's. Over the sink, a louvered window unit vents steam buildup. To seal the gap where the overhead sheet glass meets the louvered glass, the Youngs drilled holes and ran 1½-inch woodscrews through an outside 1 by 2, through a gasket of roofing felt above and beneath the glass, and into the 4 by 4. Silicone caulk seals all glass-to-wood joints.

Design was by Stewart Mayer of Terradesigns, Santa Monica, California. □

The Changing Western Home®

Grate moves from city sidewalk to the front door

Recognize the doormat at architect Carl Worthington's Boulder, Colorado, house at far right? It's half of a metal tree grate, designed for use in city sidewalks and plazas, as shown in the small photograph below right.

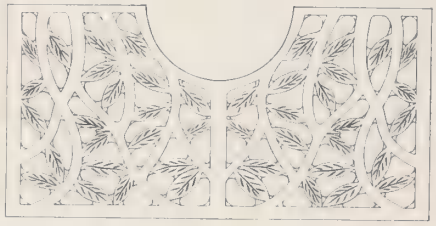
The Worthingtons' grate forms a heavy-duty doormat that is particularly handy for knocking off the snow, ice, and mud that inevitably accumulate on shoes and boots in this climate. It rests on a base of pebbles, which shed dirt and water.

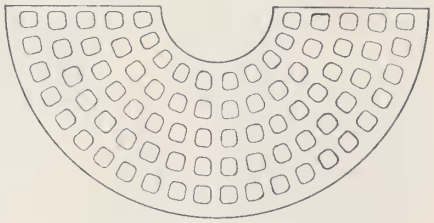
Inside the doorway, a semicircle of sisal matting is mounted flush to the tile. It provides a final spot to wipe dirty feet, and forms a visual complement to the half-grate.

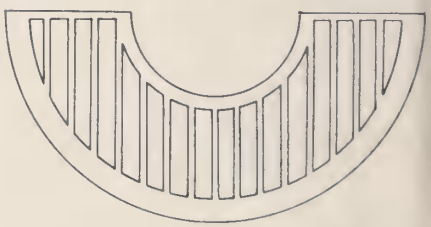
This grate cost about $160, but prices vary widely, depending on size and intricacy of design. Neenah Foundry in Wisconsin produced this one; to locate other suppliers, look in the yellow pages under Iron Foundries, or contact a landscape architect.

Shown here are a few of the other patterns available. Most manufacturers will send you a catalog of their designs; some can custom-design a pattern for you.

PETER O. WHITFLEY







Updated bins keep vegetables fresh

All those little holes in the bottom of old-fashioned vegetable bins allow air to circulate, preventing stored vegetables from sprouting or molding.

Architect Lew de Sibio of Berkeley, California, has refined this practical idea in his own kitchen. For the bottoms of three drawers, he used ¼-inch plexiglass with ⅜-inch holes drilled in it. Cool air, drawn from the crawl space below, circulates from an opening under the cabinet through all three drawers and exits through a vent in the outside wall.

JERRY FREDRICK

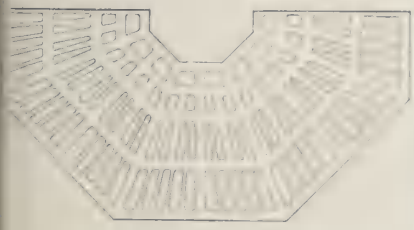
Poolside abacus counts up to 100 laps

In a back-yard pool, the lap count mounts quickly. To help her family keep track of swimming distances, Mary Leu Gardner of Bonita, California, made this single-row abacus from leftovers: wood rings from an old board game slide on a metal rod set in scrap lumber.

To make a simple 100-lap counter, you need only 10 rings of one color, positioned on the rod next to four rings of another color. You could use giant beads or wood curtain rings.

Push all rings to the center to start. Every second lap, push one of the four to one side; after each 10th lap, push one of the 10 to the other side and the four back to the center.

NORMAN A. PLATE



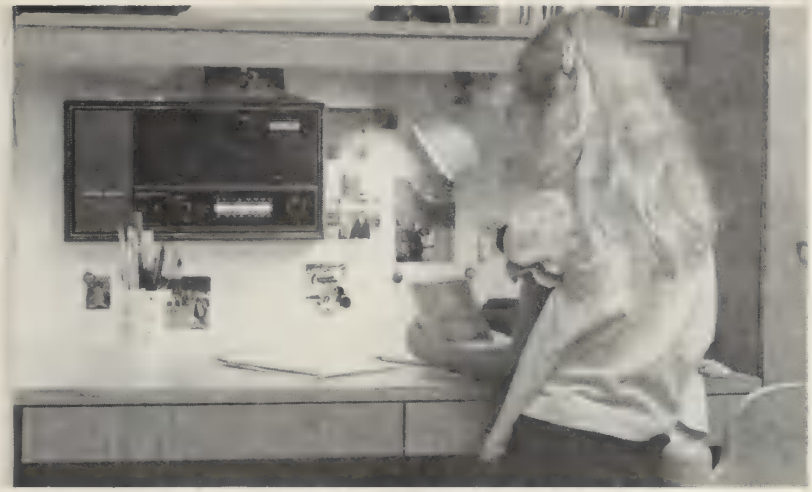
Now there's a toll-free hot line for Californians with solar energy questions

The solar energy picture is changing so fast it's not easy to stay up-to-date on current developments. Californians now have a resource that should help: a toll-free number, (800) 952-5670, for use within the state, for information on everything from pool heating to tax credits.

The SolarCal hot line, funded by the Governor's Council on Solar Energy, is in operation on weekdays from 8 to 5; a tape recorder transmits requests during off hours.

You can get oral or written answers to your questions, and brochures will be sent on request.

DON NORMARK



Magnetic desk wall is handy for stickups

Surplus sheet metal scrounged from a construction site forms the magnetic back wall of this small kitchen office in Bothell, Washington. As specified by architects Singleton-Pollock and Associates, the steel was sanded and enameled, with cutouts made to accommodate an intercom and a spotlight for the work area.

You can find steel sheeting at salvage yards and steel fabricators; check the yellow pages under both subjects.

GLENN CHRISTIANSEN

Skylights here brighten outside space

Outside spaces can often benefit as much from skylighting as interiors. Berkeley architect Peter Behn placed a bank of three skylights over the patio/porch on this Berkeley Victorian remodel, an AIA-*Sunset* Western Home Awards winner.

Though open on the sides, the porch had been too dark to be appreciated as an outside space. The skylights brightened the porch, yet kept it protected so it could be used even on rainy days.

Prefabricated acrylic bubble skylights were used between every other pair of beams. The accuracy of installation wasn't as crucial here as it would be inside, since any leakage will cause no more problem than wind-blown rain.

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URBAN INNOVATIONS GROUP

Before: *patio was dark, small—crowding both people and plants*

What they needed they got ...an outdoor living "room" that unites house, garden

STEVE W. MARLEY

After: *now pleasantly expansive, patio extends to terraced garden*

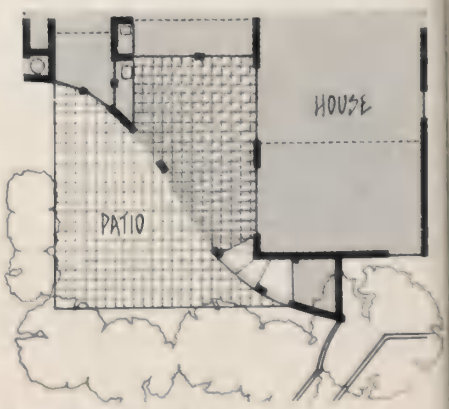
"The garden was wasted," Blanche Witherspoon says of her Sherman Oaks, California, house before its patio remodel.

Like so many houses built during the 1940s, hers was not designed for outdoor living. The patio was a 6- by 10-foot concrete slab behind the house. Shaded by an add-on aluminum overhang, it was dark, cramped, and separated from a terraced garden border by a skimpy patch of grass.

Architect Ron Filson and the Urban Innovations Group of Los Angeles designed the new patio as part of a larger remodel that expanded the kitchen, dining room, and bedroom wing.

A concrete-tile floor has replaced the old patio and lawn, unifying the house-to-garden area and providing more space for outdoor entertaining. A gracefully curving stucco wall runs cater-cornered across the new patio; the wall updates the look of the house while also supporting a lathwork of 2 by 2's covered with two tinted layers of translucent corrugated fiberglass (a tan layer neutralizes a green one).

Plumbing from a former half-bath off the kitchen was extended to the outside for a new stainless steel sink in one corner of the patio. This sink works both as a wet bar for outdoor parties and as a potting area for gardening: cupboards below the sink hold potting supplies. □



Dotted lines *show former back walls. Overhead lattice ties new stucco wall into house*

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Sunset's Kitchen Cabinet®

For starters this month, we suggest an oven-baked cheese and potato frittata that's equally appropriate served in the morning or evening. And as the barbecue season gets underway, you'll see how well our unusual corn-raisin cake or easy four-bean casserole can complement your favorite grilled meats.

On a warm day, the corned beef and macaroni slaw could be a good choice for a light dinner. And as the first

Frittata square goes well with melon wedge and a hot croissant for brunch

Cheesy Potato Frittata

This high-protein frittata could serve as a meatless brunch or supper entrée.

- 8 eggs
- 1 pint large- or small-curd cottage cheese
- ⅓ cup grated Romano or Parmesan cheese
- 1 teaspoon salt
- ½ teaspoon pepper
- 2 small russet (baking) potatoes
- 1 medium-size onion
- Paprika and chopped parsley (optional)

In a large bowl, lightly beat together the eggs. Then stir in the cottage cheese, Romano cheese, salt, and pepper; set aside.

Peel the potatoes and coarsely shred them, using a food processor or the large holes on your grater; you should have 2½ cups. Also coarsely shred the onion. Add the potatoes and onion to the egg mixture and blend well.

Pour mixture into a greased 9- by 13-inch baking dish. Sprinkle lightly with paprika. Bake, uncovered, in the middle of a 350° oven for 35 to 40 minutes or until a knife inserted in the center comes out clean.

Remove dish from oven and cool on a wire rack for about 10 minutes. Sprinkle with chopped parsley, if desired, and cut into squares to serve. Makes 4 to 6 servings.—*F. R., Seattle.*

Let macaroni and dressing stand for a few hours, then add beef and vegetables

Corned Beef and Macaroni Slaw

Garnish this salad with sliced hard-cooked eggs or ripe tomato wedges, if desired.

- 8 ounces elbow macaroni
- Boiling salted water
- ⅔ cup mayonnaise
- 2 teaspoons *each* prepared horseradish and mustard
- 1 tablespoon cider vinegar
- 1 can (12 oz.) corned beef
- ½ cup *each* chopped green pepper and mild onion
- 2 cups shredded red or green cabbage
- 1 carrot, shredded
- Salt and pepper

Cook the macaroni in boiling water until tender, following package directions; drain well. Meanwhile, stir together the mayonnaise, horseradish, mustard, and vinegar. Mix in the drained macaroni; cover and chill until cold—at least 2 hours, and up to 8 hours.

Before serving, cut corned beef into ½-inch cubes; you should have 2 cups. In a large salad bowl, combine the beef, green pepper, onion, cabbage, and carrot. Add the chilled macaroni and dressing. Stir and toss to blend thoroughly, and season with salt and pepper. Spoon onto dinner plates. Makes 4 to 6 main-dish servings.—*A. D., Fresno, Calif.*

Studded with raisins, moist corn cake is best warm from the oven or reheated

Raisin-Corn Cake

The subtle fennel flavor of this moist corn cake goes well with barbecued meats and poultry. It can double as bread and a vegetable side dish.

- 1 tablespoon fennel seed
- 4 eggs
- 2 cans (17 oz. *each*) cream-style corn
- 2 cups (8 oz.) shredded Jack cheese
- 1 package (15 oz.) cornbread mix
- ⅔ cup raisins
- 1 teaspoon liquid hot pepper seasoning
- ½ cup butter or margarine, melted

Slightly crush the fennel seed with a mortar and pestle; set aside. In a large bowl, lightly beat the eggs. Add the corn, cheese, dry cornbread mix, raisins, hot pepper seasoning, butter, and crushed fennel seed. Stir just until thoroughly moistened.

Spoon the batter evenly into a greased 9- by 13-inch baking dish or shallow 3-quart casserole. Bake, uncovered, in a 375° oven until a pick inserted in the center of the cake comes out clean, about 45 minutes. Let cool on a wire rack for about 10 minutes. Cut cake into squares and serve warm or at room temperature.

To reheat, wrap in foil and place in a 350° oven for about 10 minutes or until warm. Makes 8 to 10 servings. —*G. A., San Francisco.*

Bing cherries appear in markets, try the open-faced cherry-custard pie.

When you create recipes you would like to share, send them to *Sunset Magazine*, Menlo Park, Calif. 94025. We pay $25 for each recipe published.

Liver and onions Mexico style, corned beef supper salad, four-bean casserole picnic

Picnic Bean Potpourri

This four-bean casserole improves on standing—make it ahead and reheat.

- 1 package (10 oz.) frozen cut green beans
- 1 package (10 oz.) frozen baby limas
- 4 strips bacon, diced
- 1 large onion, chopped
- 1 clove garlic, minced or pressed
- 1 cup *each* catsup and water
- 1 teaspoon dry mustard mixed with 3 tablespoons cider vinegar
- 1 teaspoon paprika
- 1 can (15 oz.) kidney beans, drained
- 1 can (15 oz.) baked beans

Thaw the green beans and limas. Meanwhile, cook the bacon in a wide frying pan until crisp. Lift out, drain, then set aside. Discard all but 2 tablespoons of the pan drippings. Add the onion and garlic to pan and cook, stirring, until onion is limp. Stir in the catsup, water, mustard-vinegar mixture, and paprika. Then mix in the green beans, limas, kidney beans, and baked beans. Sprinkle with the bacon.

Cover and simmer over medium heat for about 20 minutes or until limas are tender. (Or spoon into a shallow 2-quart casserole, cover, and bake in a 350° oven for 40 to 45 minutes or until limas and green beans are tender to bite.) Makes 6 to 8 servings.—*E. M., Phoenix.*

Four beans mingle in this casserole; serve with sausages, barbecued meats

Liver and Onions Olé

Green chilies, sautéed onions, and cheese top fried liver in this Mexican-inspired dish. It goes well with Spanish rice and warm corn tortillas.

- 4 tablespoons butter or margarine
- 1 large onion, thinly sliced
- 1 pound sliced beef liver
- Salt and pepper
- All-purpose flour
- ⅓ cup tomato-based chili sauce
- 1 can (7 oz.) chopped green chilies
- 1 cup shredded jack cheese

Melt 2 tablespoons of the butter in a frying pan over medium heat. Add the onion and cook, stirring, until limp. Remove onions from pan and set aside.

Meanwhile, remove membrane and cut liver into serving-size pieces. Melt the remaining 2 tablespoons butter in the frying pan. Sprinkle liver lightly with salt and pepper, then dredge in flour, shaking off excess. Fry liver in the butter just until browned on both sides. Transfer liver pieces to a warm, heatproof serving plate. Spread with some of the chili sauce, then top equally with the green chilies and cooked onions. Sprinkle evenly with the cheese. Slip under a preheated broiler for a few minutes to melt the cheese. Serves 4 to 6.—*J. R., La Mirada, Calif.*

A spicy topping is layered on fried liver, then under the broiler it goes

Cherry-Custard Squares

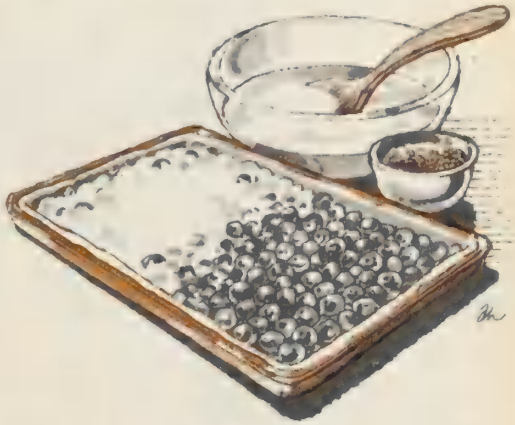
Use fresh Bings or partially thawed frozen sweet cherries in this dessert.

- 2 eggs
- 2 cups unflavored yogurt
- 1¼ cups sugar
- ⅛ to ¼ teaspoon almond extract
- 6 tablespoons quick-cooking tapioca
- Enough pastry for a double-crust 9-inch pie
- 1½ cups granola-type cereal
- 6 cups pitted Bing cherries or 2 bags (1 lb. *each*) partially thawed unsweetened frozen cherries

Lightly beat the eggs, then stir in the yogurt, sugar, almond extract, and tapioca; let stand at least 15 minutes.

Prepare pastry, using a mix or your favorite recipe. Roll out all the pastry and fit into the bottom and up the sides of a 10- by 15-inch rimmed baking pan. Crush any large pieces of granola and sprinkle ¾ cup evenly over the crust. Arrange the cherries in a single layer on top.

Pour tapioca mixture evenly over the fruit, then sprinkle with the remaining ¾ cup granola. Bake in the lower half of a 400° oven for 35 to 40 minutes or until topping is golden. Cool on a wire rack. Cut into squares to serve warm or at room temperature. Serves 12.—*L. G., Olympia, Wash.*



Pour tapioca custard mixture over the cherries, top with granola, and bake

GLENN CHRISTIANSEN

Coolly cloaked *in white or chocolate coatings, fresh fruits dress up as bonbons. They're a summery treat with coffee or tea, or as dessert*

Fruit bonbons

Easy as anything. You just dip strawberries or cherries, raspberries, fruit sections in melted chocolate or white candy coating

Dip whole strawberries *into coating liquid; let excess drip back into pan. Lay coated berries on waxed paper to stand until coating sets*

e juicy ripeness of fresh summer fruit htly touched with the sweetness of ite or dark chocolate—that's the spe- l appeal of our easy-to-make fruit abons. Choose strawberries, Bing cher- s, orange sections, or fresh raspber- s: then just dip, cool, and serve.

l you do is melt chocolate baking chips white candy coating in a double iler and start dipping. As soon as the ating is set, your bonbons are ready enjoy, though they'll keep overnight the refrigerator. (On warm days, keep em in a cool place or refrigerate until ving time so the coating won't begin melt.)

r easy dipping, start with about 1 cup melted chocolate or white candy coat- g. This amount will coat about 3 dozen ces of fruit. If you don't want to make s many bonbons, simply pour leftover ating out onto waxed paper or foil and cool. Then wrap and store in a cool ice or refrigerate; you can melt it ain another time.

ou can buy white candy coating in ost candy stores and at candy counters some department and variety stores. is often called white chocolate.

esh Fruit Bonbons

ou'll need 1 package (6 oz.) semisweet ocolate baking chips or 6 ounces white ndy coating to make 2 to 3 dozen fruit nbons. Use whole strawberries and Bing cherries with stems, raspberries, and fresh orange sections.

oon out *a small dab coating on waxed paper, n set a raspberry on top*

Place the baking chips or candy coating in the top of a double boiler. Stir over *barely* simmering water just until mixture begins to melt. Reduce heat to lowest setting and remove double boiler from the heat. Stir the coating until completely melted, then return double boiler to the heat. Coatings dip best at 85°, and become too thick if overheated (if coating becomes too thick for easy dipping, set over cool water and stir until it thins).

Holding strawberries and cherries by their stems, dip each fruit about three-quarters of the way into the coating. Hold orange sections in your fingers and dip about halfway into coating. Lay dipped fruits on baking sheets or pans lined with waxed paper.

For raspberries (or other whole berries), spoon out small amounts of coating onto waxed paper and spread with the spoon into circles about the size of a quarter. Set a raspberry in the center of each. This is a good way to use up the last of your coating.

Let bonbons stand in a cool place or chill, uncovered, until coating is set, about 45 minutes. Bonbons are best if served the same day they are made, but they can be stored in the refrigerator, uncovered, overnight. □

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Ken Cook, President

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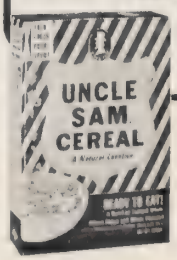

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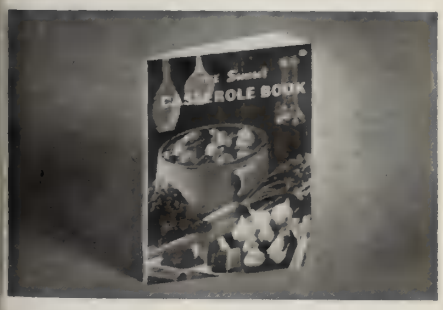

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The advantages of casseroles are many: they can be prepared ahead of time; they cook without constant supervision; and they can be easily served to any number of people. *The Sunset Casserole Cook Book* presents the very best of excellent casserole recipes that have been prepared in the Sunset kitchens. Only $2.95 from your retail store or send to Sunset Books, Willow & Middlefield Roads, Menlo Park, Calif. 94025. Calif. residents add sales tax.

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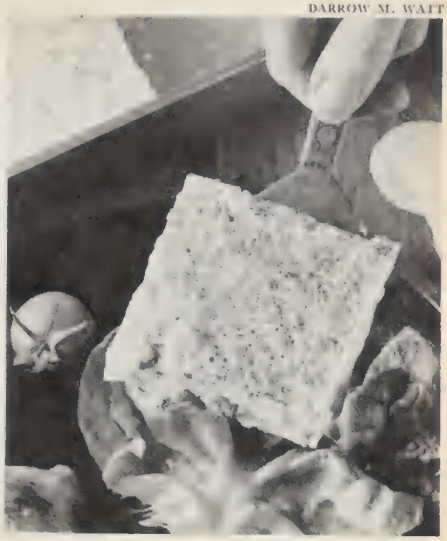


Serve *molded potato salad squares on lettuce leaves, top with sliced egg*

This potato salad is molded

Of countless recipes for potato salad, this one's a bit different. We've added gelatin so it can be molded. Serve it cut into squares with chicken or meats.

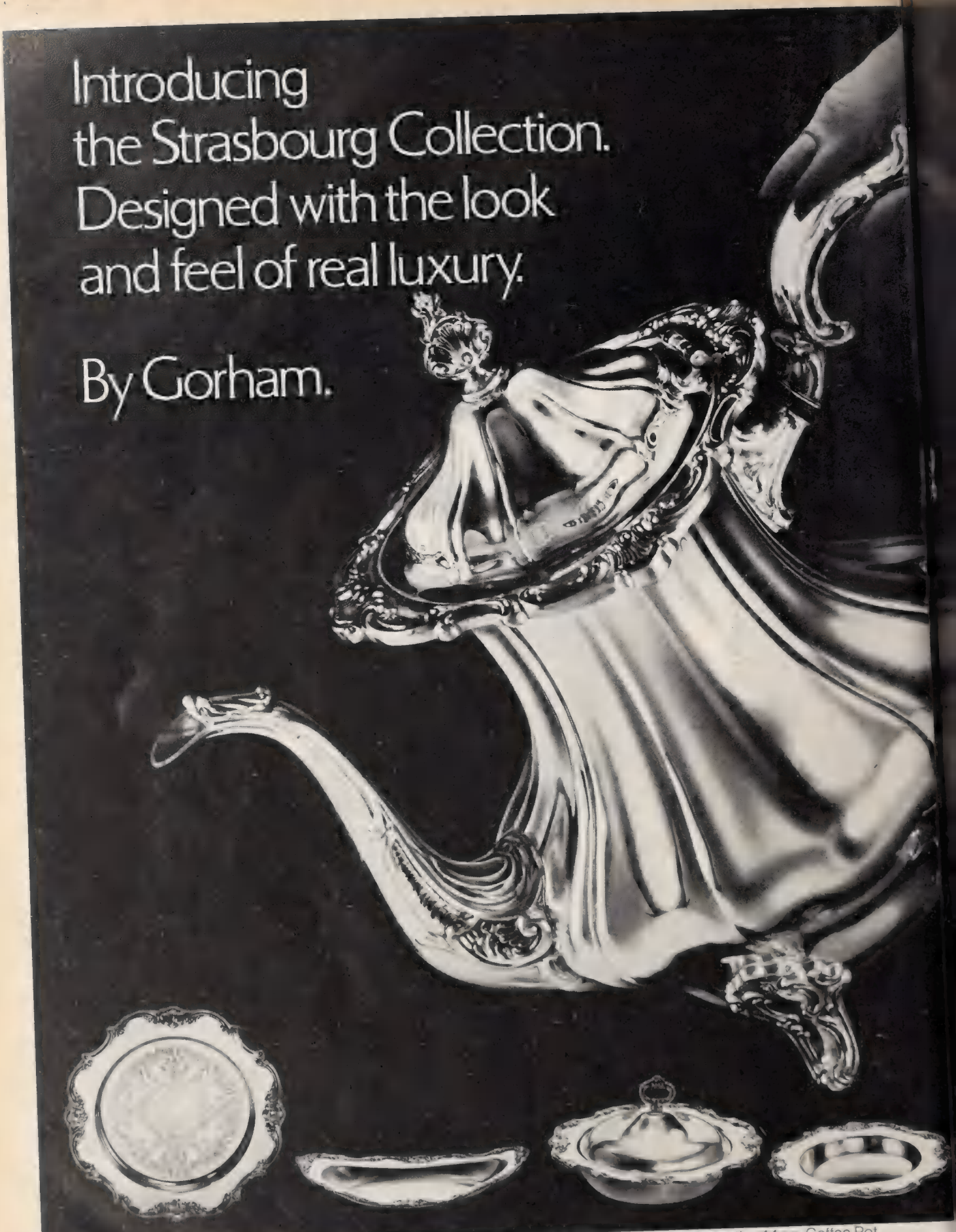
Potato Salad Squares

- About 2 large potatoes, cooked and peeled
- 3½ tablespoons white wine vinegar
- ⅓ cup chopped sweet pickle
- 1 teaspoon salt
- Dash pepper
- ½ teaspoon dill weed
- ⅓ cup *each* sliced green onion and chopped celery
- 1 envelope unflavored gelatin
- 1½ cups regular-strength chicken broth
- ½ cup mayonnaise
- 1 teaspoon Dijon mustard
- ¼ cup chopped parsley
- Lettuce leaves (optional)
- Sliced hard-cooked eggs
- Paprika

Cut enough of the potatoes into ½-inch cubes to make 2 cups. Combine 2½ tablespoons of the vinegar, the pickle, salt, pepper, dill, onion, and celery. Mix in potatoes and let stand.

Meanwhile, sprinkle gelatin over the broth; let stand 5 minutes to soften. Stir over direct heat to dissolve, then stir in remaining 1 tablespoon vinegar. Chill until slightly thickened, about 35 minutes. Add mayonnaise and mustard and beat with a rotary beater until foamy. Fold in potato mixture and parsley.

Spoon mixture into a 9-inch-square pan. Cover and chill until firm, at least 6 hours or overnight. Cut into 9 squares. Serve on lettuce leaves, if desired, and top with egg slices and paprika. Makes 9 servings. □



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Chickens meet lemons . . . to their mutual delight

Feathered Lemon Delight does not refer to a feathered lemon, although such a notion does set the mind racing. (Are the feathers yellow, too? Does it soar gracefully from the tree into your kitchen, or does it fall on your head like a proper Newtonian apple, uttering squawks of distress?)

It is actually Bob Powelson's recipe for moist tender chicken, sauced with a blend of herbs and lemon. Chinese cooks combine lemon and chicken in a sweet-sour dish that, if prepared by a heavy hand, resembles chicken-studded lemon meringue pie. Not so Mr. Powelson. His dish is savory rather than sweet. Sugar has no part in it, and the lemon is less of a sharp clear note than just one tone in a subtle chord.

Feathered Lemon Delight

- 2 broiler-fryer chickens (about 3½ lbs *each*), cut up
- Salt
- All-purpose flour
- ¼ cup butter or margarine
- ⅓ cup lemon juice
- ¾ cup regular-strength chicken broth
- 2 cloves garlic, minced or pressed
- ¾ teaspoon oregano leaves
- ¼ teaspoon *each* paprika, pepper, and poultry seasoning
- ⅛ teaspoon dry rosemary
- 1 tablespoon cornstarch blended with 1 tablespoon water

Rinse chicken pieces and pat dry. Lightly sprinkle with salt, then dredge each piece in flour, shaking off excess. Melt butter in a wide frying pan over medium heat; add chicken pieces, a few at a time, and cook until well browned.

Pour in the lemon juice and broth; stir in garlic, oregano, paprika, pepper, poultry seasoning, and rosemary. Cover and simmer for 30 minutes or until thigh meat near bone is no longer pink when slashed. Remove chicken to a warm serving platter; keep warm. Skim fat from pan drippings; stir in the cornstarch mixture and cook, stirring, until thickened. Spoon sauce over chicken. Makes about 8 servings.

Bob Powelson

Dorena, Ore.

Pancakes Preston are made with the same ingredients as blintzes, but a different mixing technique makes them more like flying clouds. The cottage cheese and sour cream are mixed with beaten egg yolks, and the mixture is lightened with beaten egg whites.

Some dissenters among our tasting group claimed to prefer pancakes made with prepared mix. Such heresy springs from inadequate experience with Jewish Sunday breakfasts. These pancakes are not for sopping up syrup or mopping up egg yolk; eat them with preserves as the third or fourth course of a three-hour breakfast. Coffee and Sunday's *The New York Times* are appropriate accompaniments.

Pancakes Preston

- 4 eggs, separated
- 1 cup small curd cottage cheese
- 1 cup sour cream
- ¾ cup all-purpose flour
- 1 tablespoon sugar
- ¾ teaspoon baking powder
- ½ teaspoon salt

Beat egg yolks until light and lemon-colored, then beat in the cottage cheese and sour cream. Stir together the flour, sugar, baking powder, and salt. Mix into egg yolk mixture. Beat egg whites until stiff moist peaks form, then gently fold them into batter.

Preheat a pancake griddle or frying pan over medium heat; grease lightly. For each pancake, pour about ⅓ cup batter onto griddle so it spreads into a 4-inch circle. Cook until bubbles appear and surface looks dry; turn and cook other side until browned. Makes about 1½ dozen 4-inch pancakes.

Jack R. Preston

Palo Alto, Calif.

Strictly speaking a *poulet* is a young chicken, but Vince Gordacan, who holds a valid poetic license, puts turkey breast medallions in his poulet piccata. It alliterates better than *dindon* piccata or *tacchina* piccata, and turkey cooked this

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way tastes just as delicate as chicken.

Some markets sell sliced raw turkey breast. Or slice your own. Of course you could use veal cutlet, especially if you have just won the Irish Sweepstakes.

Vince's Poulet Piccata

- 2 to 3 pounds boneless uncooked turkey breast, skinned
- ½ teaspoon *each* garlic powder, pepper, and dry basil
- All-purpose flour
- 2 tablespoons butter or margarine
- 2 tablespoons olive oil or salad oil
- 1 cup regular-strength beef broth
- 3 tablespoons lemon juice
- 1 lemon, thinly sliced
- 2 tablespoons capers, drained

Cut turkey breast with the grain into ¼- to ⅜-inch-thick slices. Pound any end chunks to about ¼-inch-thick pieces. Combine garlic powder, pepper, and basil; rub into turkey pieces, then dredge each in flour to coat evenly. Shake off excess. Heat the butter and oil in a wide frying pan over medium-high heat; add the turkey pieces and cook until lightly browned on both sides, about 4 minutes total. Lift out and set aside.

Add the broth and lemon juice to the pan drippings; cook about 1 minute, scraping up browned bits from pan bottom. Return turkey to pan, arrange lemon slices on top, cover, and simmer for about 3 minutes or until meat is opaque throughout. Transfer turkey and sauce to a rimmed platter or chafing dish. Sprinkle with capers. Serves 6 to 8.

Vincent F. Bodacan

Fox Hills, Calif.

There's an old saw that counsels you can't make an omelet without breaking eggs. You can't make this omelet without also making Mr. Simonds' *fromage blanc* the day before. But it's worth the effort and planning. The fromage blanc adds a nutty flavor to the egg, and the recipe makes enough fromage blanc for additional omelets or for use as a lower-calorie sour cream substitute in salad dressing or dessert toppings. The fresher the ricotta and yogurt you use, the longer the fromage blanc will keep.

(It is also quite possible to break eggs without making an omelet, but such thoughts are counterproductive here.)

Fromage Blanc Omelet for Two

- 3 tablespoons butter or margarine
- ¼ pound mushrooms, sliced
- 1 tablespoon finely chopped onion
- 1 tablespoon chopped parsley
- Fromage blanc (recipe follows)
- 4 eggs
- About ¾ cup shredded Swiss cheese
- 1 to 2 ounces chipped beef or sliced cooked ham, coarsely chopped

"To make an omelet you must break eggs"

Melt 1 tablespoon of the butter in small frying pan over medium heat; add mushrooms, onion, and parsley; cook until mushrooms are golden. Set aside.

Beat ¼ cup of the fromage blanc and the eggs together until smooth. Melt the remaining 2 tablespoons butter in an omelet pan (about 8 inches in diameter) over medium-high heat until sizzling; add the egg mixture, and as eggs begin to set, push egg aside to let uncooked egg flow into pan. Shake pan frequently to help keep omelet from sticking. When it's set enough that no egg flows when

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pan is tipped, sprinkle surface with Swiss cheese. Top with the mushroom mixture, then the chipped beef.

To fold omelet, tip pan at about a 45° angle; with a spatula, fold the upper ⅓ of omelet down over filling. Hold pan over the serving dish and shake so unfolded edge slips onto dish; then quickly flip pan on over so omelet folds onto itself. Cut in half. Makes 2 servings.

Fromage blanc. In a blender, combine 8 ounces ricotta cheese, 3 tablespoons unflavored yogurt, and a pinch of salt. Whirl until smooth. Cover; chill at least 12 hours or as long as 2 weeks.

Richard S. Simonds

Oakland

Does anybody remember when large bowls of chilled pink prawns or shrimp used to stand around on buffets, or when a half dozen or so might casually accent a dinner salad?

Now only princes and rock stars can afford to serve unadorned shrimp. The rest of us must stretch them with cream or other sauces. But we can still put on a princely show with Homer Blevins's dinner party shrimp. A bed of wild rice, another noble staple, does justice to the subtle flavorings of the shrimp and sauce.

Dinner Party Shrimp and Rice

- ¼ cup (4 tablespoons) buttter or margarine
- ½ medium-size green pepper, seeded and chopped
- ½ pound mushrooms, sliced
- 1 small onion, chopped
- ¼ cup thinly sliced celery
- 3 tablespoons all-purpose flour
- 2 cups milk
- 1 egg
- 1 jar (2 oz.) sliced pimiento, drained
- 1 tablespoon chopped parsley
- ½ to ¾ pound small cooked shrimp
- ¼ to ½ teaspoon liquid hot pepper seasoning
- Salt and pepper
- 1 package (5 oz.) white and wild rice mix, or 1 cup wild rice

Melt the butter in a wide frying pan over medium heat and stir in the green pepper, mushrooms, onion, and celery; cook until onion is limp. Stir in flour and cook 1 minute, then add 1½ cups of the milk and cook, stirring, until thickened. Beat egg with the remaining ½ cup milk. Blend this mixture into vegetables, along with the pimiento, parsley, shrimp, and hot pepper seasoning. Cook, stirring, until steaming. Do not boil. Season with salt and pepper to taste.

Cook rice according to package directions. Serve rice with shrimp mixture to spoon over top. Makes about 4 servings.

Homer J. Blevins

Apple Valley, Calif.

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TOM WYATT

Four Italian cheeses *create a rich but subtle sauce for homemade fettuccine*

Look in at your favorite Italian delic tessen or cheese store and you'll find t ingredients for these two pasta sele tions. Our first recipe for a rich creamy pasta sauce uses four distincti Italian cheeses: fontina, Bel Paese, G gonzola, and Parmesan.

The pasta course shown below is ricott and spinach-stuffed pasta shells, bak in a tomato and mushroom sauce. T giant-size shells (about 2 inches lon are sometimes called *conchiglie grand* Freeze any leftover sauce to use ov any kind of pasta.

Whether you're looking for more pas dishes like these two, old favorites suc as spaghetti and meatballs, or a new wa to use Chinese won ton wrappers, you find it in *Sunset*'s new *Pasta Cook Boo* (Lane Publishing Co., Menlo Park, Cali 94025; $3.95).

Fresh Noodles with Four Cheeses
(Fettuccine a Quattro Formaggi)

- 1 recipe fresh all-purpose pasta (see page 8 of the *Sunset Pasta Cook Book*) or 8 ounces packaged dry medium-wide noodles
- 3 tablespoons butter or margarine
- 1½ tablespoons all-purpose flour
- ⅛ teaspoon ground nutmeg
- Dash white pepper
- 1 cup half-and-half (light cream)
- ½ cup regular-strength chicken broth
- ⅓ cup (about 1½ oz.) *each* shredded fontina and Bel Paese cheeses
- ⅓ cup (about 1¾ oz.) crumbled Gorgonzola cheese
- ½ cup grated Parmesan cheese
- Grated Parmesan cheese to pass

Cut fresh pasta, if used, into medium wide noodles, about 10 inches long.

Melt 1½ tablespoons of the butter in 2-quart pan over medium heat. Mix i flour, nutmeg, and pepper; cook, stir ring, until bubbly. Remove pan fron heat and gradually stir in half-and-hal and chicken broth. Return to heat anc cook, stirring constantly, until smooth and thickened. Mix in fontina and Be Paese cheese; cook, stirring, unti cheeses melt and sauce is smooth. Stir

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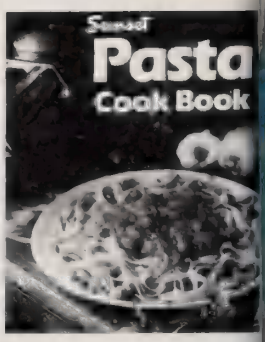

Pasta shells *are filled with cheese and spinach, baked in mushroom gravy*

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in Gorgonzola. Cover pan and place ove simmering water to keep sauce warm.

Cook noodles in boiling salted wate until *al dente* (tender but firm), 1 to minutes for fresh noodles or accordin to package directions. Drain. Mix noo dles lightly with the remaining 1½ t blespoons butter and the ½ cup Parme san cheese. Divide noodles onto 4 to plates. Top each serving with an equa amount of the hot cheese sauce and pas additional Parmesan cheese to sprinkl over. Makes 4 to 6 servings.

Ricotta-stuffed Giant Shells

- 4 cups Italian mushroom gravy (recipe follows)
- 1 small onion, finely chopped
- 1 clove garlic, minced or pressed
- 3 tablespoons butter or margarine
- 1 package (10 or 12 oz.) frozen chopped spinach, thawed and well-drained
- 2 eggs
- 2 cups (1 lb.) ricotta cheese
- ¼ cup grated Parmesan cheese
- 1 tablespoon chopped parsley
- ½ teaspoon *each* oregano leaves and salt
- Dash of pepper
- 16 to 18 giant-size pasta shells
- Boiling salted water

Prepare Italian mushroom gravy.

In a wide frying pan over medium-high heat, cook onion and garlic in butter until onion is limp. Add spinach and cook for 3 minutes. Stir eggs into ricotta until well blended, then stir in spinach mixture, Parmesan cheese, parsley, oregano, salt, and pepper.

Cook giant shells in a large kettle of boiling salted water as package directs until *al dente*. Rinse with cold water and drain. Stuff each shell with 3 tablespoons spinach-cheese mixture.

Pour 2 cups of the Italian mushroom gravy in the bottom of a 9- by 13-inch baking dish. Arrange filled shells side by side in sauce. Spoon remaining 2 cups sauce over top. At this point you can cover and refrigerate for as long as overnight. Bake, covered, in a 350° oven until hot and bubbly, 40 to 50 minutes. Makes 4 to 5 main-dish servings.

Italian mushroom gravy. Soak 1 cup dried mushrooms (about ½ oz.) in 1½ cups hot water; set aside.

In a wide frying pan or 5-quart or larger Dutch oven, heat 3 tablespoons olive oil or salad oil over medium heat. Add 1½ cups chopped parsley (about 1 bunch); 2 or 3 stalks celery, chopped; 2 cloves garlic, minced or pressed; ½ teaspoon *each* dry rosemary, thyme leaves, and sage leaves. Cook, stirring, until vegetables are soft. Stir in 2 cans (about 15 oz. *each*) tomato sauce, 2 cans (about 1 lb. *each*) tomatoes including liquid (break up tomatoes with a spoon), and ¼ teaspoon crushed red pepper. Chop mushrooms and add with mushroom-soaking liquid to pan. Cover and simmer slowly for 3 hours. Add salt to taste. Makes 1½ to 2 quarts. □

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Behold a salad bar to ooohhh and aaahhh about!

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ve food from California

DARROW M. WATT

Golden granola brownies *stay moist and chewy for lunch boxes and picnics*

Here are unexpected brownies

Not all brownies are dark and chocolaty, as these three versions prove. Graham cracker crumbs replace the flour in the first recipe; the second has lots of crunchy granola mixed in. And for cake-like applesauce-spice bars, try the third kind with an orange glaze.

Graham Cracker Brownies

Crush enough graham crackers (about 30 squares) to make 2½ cups crumbs; set aside. In a bowl, lightly beat together 4 eggs. Mix in ¾ cup *each* granulated sugar and packed brown sugar, 1 teaspoon vanilla, ½ teaspoon salt, the cracker crumbs, and 1 cup chopped nuts.

Spread batter in a greased and flour-dusted 9- by 13-inch baking pan. Bake in a 350° oven for 20 minutes or until a pick inserted in the center comes out clean. Cool briefly in the pan on a rack. Then cut into squares or bars. Makes about 2 dozen.

Chewy Granola Brownies

- ½ cup (¼ lb.) butter or margarine
- 1¾ cups packed brown sugar
- 2 eggs
- 1 teaspoon vanilla
- ¾ cup all-purpose flour
- ¾ cup whole-wheat flour
- 2 teaspoons baking powder
- 1 teaspoon salt
- 1½ cups granola (homemade or purchased)
- ½ cup chopped nuts (optional)

Melt butter in a saucepan over low heat. Remove from heat and mix in the sugar. Stir in eggs and vanilla; set aside.

In a bowl, stir together all-purpose flour, whole-wheat flour, baking powder, and salt. Add the sugar mixture and stir to blend. Mix in granola and nuts if used. Spread batter in a greased 9- by 13-inch baking pan.

Bake in a 350° oven for 25 minutes (take care not to overbake) or until a pick inserted in the center comes out clean. Cool in pan on a rack. Cut into bars to serve. Makes about 2 dozen.

Applesauce-Raisin Brownies

- 6 tablespoons butter or margarine
- 1¼ cups packed brown sugar
- ½ cup applesauce
- 1 egg
- 1 teaspoon va
- 1¼ cups all-p
- 1 teaspoon b
- ½ teaspoon *each* ground cinnamon
- ¼ teaspoon *each* soda and ground nutmeg
- ½ cup *each* raisins and chopped nuts
- Orange glaze (optional)

Melt butter in a pan over low heat. Remove from heat and stir in sugar, then the applesauce, egg, and vanilla.

In a bowl, stir together flour, baking powder, salt, cinnamon, soda, and nutmeg. Add the applesauce mixture and blend well. Stir in raisins and nuts. Spread mixture into a greased 9- by 13-inch baking pan.

Bake in a 350° oven for 25 minutes or until a pick inserted in the center comes out clean. Cool briefly in pan on a rack. If desired, spread with glaze while still warm. Cut into bars or squares. Makes about 2 dozen.

Orange glaze. Stir together ½ cup sifted powdered sugar and 1 tablespoon orange juice until smooth. □

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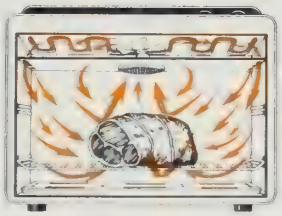

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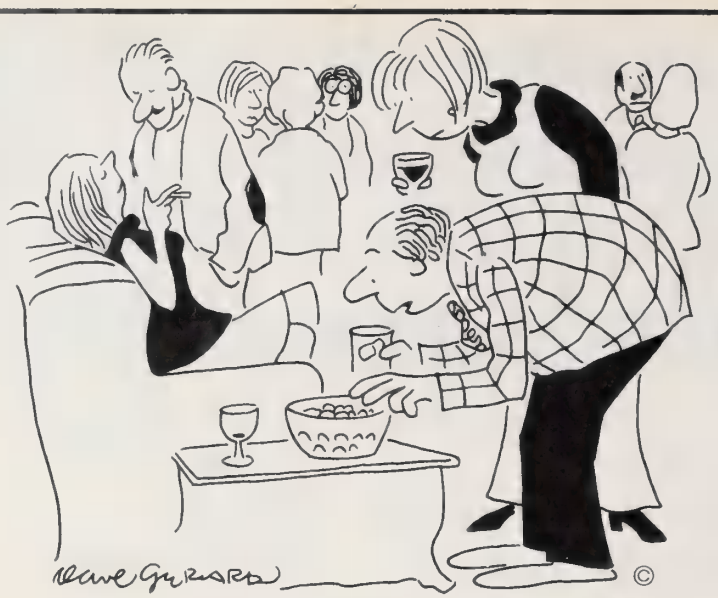

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NORMAN A. PLATT

Thick and frosty *slush can be frozen ahead, then thawed and served on short notice*

Fizzy slush is made ahead

Thirst-quenching and not too sweet, this fruit slush is an icy blend of puréed bananas, citrus fruit juices, and carbonated beverage.

Last-minute preparation is minimal, since you mix the fruit and juices ahead and freeze them. Several hours before serving, just thaw slightly and add your choice of carbonated beverage.

Our recipe makes about thirty 6-ounce servings and can easily be doubled for a larger crowd.

Banana Fruit Slush

In a large bowl, stir together 6 cups water and 1½ cups sugar, mixing until sugar is completely dissolved. Add 1 large can (12 oz.) frozen orange juice concentrate (thawed) and 1 large can (46 oz.) pineapple-grapefruit juice; mix well.

In a blender or food processor, whirl 5 medium-size bananas until puréed, then stir into juice mixture until well combined. Pour into two ½-gallon freezer containers or clean milk cartons. Cover and freeze at least 24 hours or up to six months.

To serve, let punch thaw at room temperature for about 3 hours or until mixture is slushy. Stir in 1 bottle (32 oz.) lemon-lime-flavored carbonated beverage or 1 bottle (28 oz.) club soda (if thawing only half the punch, add only 2 cups beverage); serve immediately. Makes about thirty 6-ounce servings.—*M. L., La Jolla, Calif.* □

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DARROW M. WATT

Browned and glazed *with a mustard, wine, and onion sauce, bratwurst goes well with small red potatoes and tender carrots*

Grilled Polish sausages, *split down the middle, hold seasoned potatoes and cheese*

Marinated *garlic frankfurter slices and strips of cheese top lettuce and red cabbage for a whole meal salad*

Sausages for speedy summer meals

When speed is of essence at suppertime, fully cooked sausages like Swiss bratwurst, garlic frankfurters (knackwurst), and Polish sausages (kielbasa) can be friends indeed. Just reheat them to serve. Each has its own characteristic flavor, and with a few simple additions, can provide quick, filling entrées like the three we show here.

Mild bratwurst is served with a delicate sauce, made quickly by reducing white wine and whisking in mustard, parsley, and green onion. For a salad supper, you combine fully cooked garlic frankfurters, peeled and sliced, with cheese and a flavorful dressing. Serve over crisp greens and cabbage. Almost a meal in itself, the third sausage entrée stuffs mashed potatoes with cheese into spicy Polish sausages. Any of these takes a minimum of time to prepare—ready to serve in under 30 minutes.

Bratwurst in Mustard Wine Sauce

- 1½ pounds (about 6) bratwurst
- ¼ cup butter or margarine
- 1 cup dry white wine
- 1 teaspoon Dijon mustard
- 2 tablespoons finely chopped parsley
- 1 green onion, finely chopped
- Pepper

Place sausages in a frying pan and cover with boiling water; let stand 10 minutes; then drain well. With the frying pan over medium heat, melt 1 tablespoon of the butter and brown the sausages on all sides. Transfer them to a warm serving platter and keep warm.

Remove excess fat from pan but save any crusty particles on pan bottom. Add the remaining butter to pan and cook, stirring, over medium-high heat until butter foams and begins to brown. Pour in the wine and cook over high heat, stirring constantly with a wire whip, until reduced to a slightly thickened sauce.

Remove from heat and whisk in the mustard, parsley, and green onion. Pour over sausages and sprinkle with pepper. Makes 4 to 6 servings.

Garlic Frankfurter Dinner Salad

- 4 tablespoons salad oil
- 1 tablespoon white wine vinegar
- 2 green onions, chopped
- 1 tablespoon drained sweet pickle relish
- 1 teaspoon Dijon mustard
- ½ teaspoon salt
- ¼ teaspoon pepper
- 1 pound (about 4) garlic frankfurters
- About 3 ounces kuminost cheese
- Lettuce leaves
- About 2 cups finely shredded red cabbage
- Tomato wedges

Stir together the oil, vinegar, onions, pickle relish, mustard, salt, and pepper. Peel skins from sausages, then cut into ¼-inch diagonal slices. In a bowl, mix the dressing and sausage slices. Cut cheese into thin matchstick-size pieces and mix gently into the sausage mixture. Cover and let stand at room temperature up to 2 hours while assembling the rest of the salad (or refrigerate up to 2 days and warm to room temperature before serving).

To serve, line 4 dinner plates with lettuce leaves and top with equal amounts of the shredded cabbage. Spoon the sausage mixture onto each. Garnish with tomato wedges. Makes 4 servings.—*E. H., Menlo Park, Calif.*

Potato-stuffed Polish Sausages

- Enough instant mashed potatoes for 4 servings
- ⅓ cup chopped green onion
- 1 large carrot, shredded
- About ⅔ cup shredded Cheddar cheese
- Salt and pepper
- 6 Polish sausages
- Dijon mustard

Prepare the instant mashed potatoes as directed on package. Stir into potatoes the green onion, carrot, and ¼ cup of the cheese. Season to taste with salt and pepper and keep warm.

Cut sausages lengthwise, almost in half, and spread open. Arrange them on a broiler pan and broil 4 to 6 inches from the heat until hot, about 5 minutes. Spread the cut sides with mustard, then spoon the potato mixture into the centers as shown above. Sprinkle with the remaining cheese. Broil about 5 minutes longer or until hot throughout. Serves 4 to 6.—*U. P., San Carlos, Calif.*

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Thinly slice *the partially frozen lean beef round and marinate overnight. Arrange flavored strips on racks to oven-dry*

DARROW M. WATT

How to make spicy jerky

Marinated morsels of dried beef or pork jerky make easily stored high-protein snacks. Carry them on a hike or keep some on hand at home. They keep almost indefinitely at room temperature.

For beef, choose the spicy Mexican-flavored or the more delicate herb- and wine-flavored jerky. Our pork jerky combines the sweet spices of Chinese-style barbecued pork.

If you partially freeze the meat, it's easier to slice. Cut with the grain if you like chewy jerky, across the grain for tenderer but more brittle jerky.

Spicy Mexican Jerky

- 1 to 1½ pounds boneless beef top round, partially frozen
- 2 tablespoons water
- 2 tablespoons Worcestershire
- 1 teaspoon salt
- 2 cloves garlic, pressed
- ⅛ teaspoon cayenne
- 1 teaspoon ground cumin
- 1½ teaspoons chili powder

Trim and discard all fat from meat. Slice the meat with or across the grain in strips ⅛ inch thick and as long as possible.

In a bowl, combine the water, Worcestershire, salt, garlic, cayenne, cumin, and chili powder. Stir until well blended. Add meat strips, mix thoroughly, cover, and marinate several hours or overnight.

Shake off any excess liquid and arrange strips of meat close together—but not overlapping—on racks set in 2 rimmed foil-lined 9- by 13-inch baking pans.

Dry meat in a 200° oven for about 5 to 6 hours, or until meat has turned dark brown and feels dry. Pat off any beads of oil. Cool, then remove from racks and store in airtight containers. Makes 5 to 6 ounces.

Savory Herb-Wine Jerky

Trim and slice 1 to 1½ pounds boneless beef top round as directed for Spicy Mexican Jerky. In a pan, combine 2 cloves garlic, pressed; ¾ cup burgundy; 1 tablespoon thyme leaves; 2 whole bay leaves; 1 teaspoon *each* salt and Worcestershire; and ¼ teaspoon pepper. Simmer for 5 minutes, transfer to a bowl and cool. Add the meat, marinate, and dry as directed for the Mexican jerky. Makes 5 to 6 ounces.

Five-spice Pork Jerky

Partially freeze 1 to 1½ pounds boneless pork loin. Trim fat and slice pork as directed for the beef in Spicy Mexican Jerky. In a bowl, combine 2 tablespoons packed brown sugar, 3 tablespoons soy sauce, 1 tablespoon dry sherry, 1 teaspoon salt, ⅓ cup water, ¼ teaspoon *each* pepper and Chinese five-spice seasoning (if your market doesn't carry it, look in Oriental markets), and 2 cloves garlic (pressed). Add pork, marinate, and dry as directed for Mexican jerky. Makes about 7 ounces. □

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DARROW M. WATT

Slices of salami, onion, and provolone *go into pocket in flank steak to cook. Skewers hold it closed. Cut across steak after grilling*

Drama unfolds when you slice

Outdoor chefs who enjoy showmanship will find this stuffed flank steak a good candidate for the grill. While cooking, it appears plump but otherwise not distinguished. The drama unfolds as you slice it to reveal the savory ribbons of salami, onion, and cheese inside.

Stuffing a flank steak is quite easy—all you need is a very sharp knife to cut a generous pocket in the middle. Just overlap salami slices on the bottom of this pocket, top them with onion and cheese, then add another layer of salami. Th salami layers keep melting cheese fro seeping through the fibers of the stea during cooking.

Grilled Flank Steak Italiano

- 1½- to 2-pound flank steak
- 1 teaspoon dry basil
- 1 package (6 oz.) sliced dry salami
- 1 small mild white onion, thinly sliced
- 1 package (6 oz.) sliced provolone cheese

Lay flank steak flat. With a sharp knif carefully slice along one of the lon edges of the steak to make a horizont pocket almost as big as the steak; b careful not to cut through at sides o back. Open the pocket and sprinkle th inside evenly with basil. Arrange abou half the salami slices over the bottom— then add all the onion slices, the cheese and the remaining salami. Use 1 or wooden skewers to close the opening.

To cook, place steak flat on a grill 4 to inches above a bed of medium glowin coals. Cook 7 to 8 minutes on each sid for medium-rare, or cook until steak i done to your liking when slashed.

Remove to a carving board and cu across the grain of the meat in slantin slices about ½ inch thick. Makes 4 to servings.—*P. C., Los Angeles.*

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DAVID STUBBS

Three handsome layers *of vegetable pâté—broccoli, cauliflower, and carrot—bake in bread dough for this sandwich-like entrée*

Multideck vegetable sandwiches

A warm, fragrant slice of this colorful, crust-crowned vegetable torte is almost a meal in itself.

It's a fine choice for a spring picnic, served with cold cuts or cheese. Using hot roll mix simplifies preparation, and you can bake the torte a day ahead, then rewarm it before serving.

Layered Vegetable Torte

Prepare 1 package (about 14 oz.) hot roll mix as directed on the package, up through the first rising. While dough rises, prepare vegetable fillings.

Broccoli filling. Squeeze moisture from 2 packages (10 oz. *each*) frozen chop broccoli, thawed. In a bowl, lightly b 2 eggs; mix in the broccoli, ½ teaspo salt, ⅛ teaspoon pepper, ¾ teaspo lemon juice, and ¼ teaspoon *ea* ground nutmeg and oregano leaves.

Cauliflower filling. Wash and cut i flowerets about ¾ pound cauliflower make 3 cups. In a 2-quart pan, co cauliflower in ½ inch boiling sal water until tender-crisp, about 5 m utes. Drain, then whirl in blender or fo processor until finely chopped.

In a small frying pan over medium he melt 1 tablespoon butter or margari Add 1 onion, chopped, and sauté un limp. Pour in ½ cup whipping crea and cook over high heat until thick. a bowl, lightly beat 2 eggs; mix in cau flower, onion mixture, and ½ teaspo *each* garlic salt and dill weed.

Carrot filling. Wash, trim, and cut 10 11 carrots (about 2½ lbs.) into 2-in pieces. In a 2-quart pan, cook carro in ½ inch boiling salted water un tender-crisp, about 7 to 8 minute Drain, then whirl carrots in a blender food processor until finely choppe Lightly beat 2 eggs; mix in carrots, ½ cup mayonnaise, 2 teaspoons Worceste shire, ½ teaspoon *each* thyme leaves an salt, 1 teaspoon white vinegar, and ½ teaspoon liquid hot pepper seasoning.

When dough has doubled, turn it ont a lightly floured board and knead 2 mi utes. Divide dough in half. Roll 1 po tion (keep the other portion covered) int an 8-inch circle on a floured board. Wit a 2-inch round cooky cutter, make a hol in the center of the circle; then gently f circle over the tube and into the botton of an ungreased 10-inch tube pan (on with a removable bottom).

Spoon broccoli mixture over dough Carefully add cauliflower, then carro mixture, spreading in even layers.

Roll the other dough portion into a 10 inch circle and cut a 2-inch hole from the center. Cut circle into 8 equal sec tions and arrange sections side by side over top filling. Let dough rise again in a warm place until puffy, about 30 to 40 minutes. Brush top with 2 tablespoons melted butter.

Bake in a 350° oven on lowest rack for 1 hour (if top becomes too brown, cover loosely with foil). Cool in pan on a wire rack for 10 minutes. Loosen sides and center with a knife and remove from pan; serve warm. Or cool completely and refrigerate, covered; rewarm, wrapped in foil, in a 350° oven about 35 minutes. Serves 6 to 8. ▫

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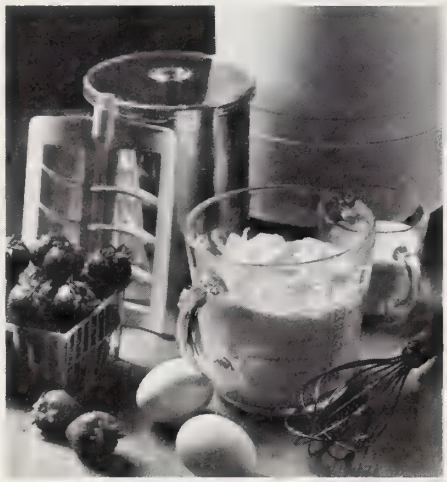

DARROW M. WATT

With an ice-cream machine *it's a breeze to make flavorful, low-calorie frozen yogurt*

When days turn sunny and warmer, thoughts often turn to frosty desserts. To satisfy that desire without adding unwanted calories, we've developed a lean way to make your own frozen yogurt. Starting with either homemade or store-bought yogurt, you can vary the recipe to make as many as 15 different flavors.

A ½-cup serving of our vanilla frozen yogurt has only 70 to 80 calories. That's much less than ice cream and most commercial frozen yogurts. And if you prepare it with egg whites instead of whole eggs, it has less than 1 gram fat and only 40 milligrams of cholesterol.

Beginning on page 116 of the April *Sunset*, we tell how you can reliably and economically produce thick, smooth homemade yogurt.

Vanilla Frozen Yogurt

1 envelope unflavored gelatin
½ cup milk
2 whole eggs, separated (or 2 egg whites)
3 cups unflavored yogurt
About ¾ cup sugar (or ⅓ cup honey and ¼ cup sugar)
2 tablespoons vanilla

Combine the gelatin and milk; let sta about 5 minutes, then stir over simm ing water until gelatin completely d solves. Cool about 5 minutes.

If whole eggs are used, beat yo lightly with a wire whip. Beat in yogu and ½ cup of the sugar (or the ⅓ c honey) until smoothly blended. Beat the gelatin mixture and the vanilla.

Beat egg whites until soft peaks for then gradually beat in remaining ¼ c sugar, beating until firm. Fold into y gurt mixture. Add more sugar if desir (keep in mind that it will taste a lit sweeter when frozen).

Transfer yogurt mixture to a 2-quart larger capacity ice cream freezer. A semble the freezer according to man facturer's directions, using about 4 pa ice to 1 part rock salt. When han cranking becomes difficult or the elect motor stalls, remove the dasher. Cov the freezer container or transfer mixtu to another container and store in yo freezer. If solidly frozen, let stand

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room temperature about 30 minutes before serving. Makes about 1¼ quarts vanilla or up to 2 quarts of the following flavored frozen yogurts.

Fresh berries (strawberry, raspberry, or olallieberry). Rinse about 1 pint berries. Mash well or whirl in blender or food processor until coarsely crushed—you'll need 1½ cups crushed berries. Add ½ cup sugar and let stand until juices form, then spoon off and reserve ½ cup juice.

Follow recipe for Vanilla Frozen Yogurt, except substitute the ½ cup berry juice for milk to dissolve gelatin. Omit the ½ cup sugar and vanilla, but add 2 tablespoons lemon juice, the sweetened berries, and any remaining juices to the yogurt mixture. Add the ¼ cup sugar to egg whites as directed.

Sweet cherries with port. Remove pits from fresh sweet cherries and finely chop enough to make 1½ cups (or use 16-ounce bag partially thawed, unsweetened frozen cherries). Pour ½ cup ruby port or orange juice over the cherries; let stand at least 30 minutes.

Follow recipe for Vanilla Frozen Yogurt, except substitute ½ cup liquid drained from cherries for milk to dissolve gelatin. Increase sugar to about 1 cup, using ½ to ¾ cup in the yogurt mixture and ¼ cup with egg whites. Substitute ⅛ teaspoon almond extract for the vanilla.

Fresh peach, nectarine, or apricot. Remove pits from peeled ripe peaches or unpeeled nectarines or apricots. Whirl fruit in a blender or food processor until coarsely crushed—you'll need about 1½ cups. To the crushed fruit, add ½ cup sugar and 2 tablespoons lemon juice; let stand until juices form, then spoon off and reserve ½ cup juice.

Follow recipe for Vanilla Frozen Yogurt, except substitute the ½ cup fruit juice for milk to dissolve the gelatin. Add up to ¼ cup additional sugar to yogurt mixture along with the sweetened fruit. Substitute ⅛ to ¼ teaspoon almond extract for the vanilla. After mixture is frozen, stir in ½ cup toasted almonds, if you wish.

Orange, grape, cranberry, or pineapple. Follow recipe for Vanilla Frozen Yogurt, except substitute 1 can (6 oz.) frozen orange, grape, cranberry, or pineapple juice concentrate (thawed) for the milk to dissolve gelatin. Also substitute 1 tablespoon lemon juice for the vanilla.

Spiced apple-nut. Follow recipe for Vanilla Frozen Yogurt, except substitute 1 can (6 oz.) frozen apple juice concentrate (thawed) for the milk to dissolve gelatin. Substitute about ½ cup packed brown sugar for the granulated sugar, adding ¼ cup with yogurt mixture, ¼ cup with egg whites, and more to combined mixture if desired. Substitute ¼ teaspoon *each* ground cloves and nutmeg for the vanilla. After mixture is frozen, stir in about ½ cup chopped almonds or walnuts.

Banana-lime. Follow recipe for Vanilla Frozen Yogurt, except substitute 1 can (6 oz.) frozen concentrate for limeade or lemonade (thawed) for the milk to dissolve gelatin. Omit vanilla and add 1 cup (about 2 large) mashed fully-ripe bananas and ⅓ cup dark rum (optional) to the yogurt mixture. After mixture is frozen, stir in about ½ cup sweetened flaked or shredded coconut.

Date and almond. Follow recipe for Vanilla Frozen Yogurt, except substitute ½ cup fresh orange juice for the milk to dissolve gelatin. Without cooling gelatin mixture, pour it over 1 cup finely chopped or snipped pitted dates; stir until evenly mixed. Substitute ¾ cup packed brown sugar for the granulated sugar, using it in both yogurt mixture and egg-white mixture. Omit vanilla, but add ½ teaspoon *each* grated orange peel and ground cinnamon and ¼ teaspoon ground cloves to the yogurt mixture. After mixture is frozen, stir in ½ cup toasted, chopped almonds. □

DARROW M. WATT

Hungry teen-agers help themselves *at buffet party. Spicy beef-and-bean-filled roll-ups can be made ahead*

JUNE MENUS

School's-out celebration to eat out-of-hand, quick supper with turkey meatballs, rib dinner that's easy on the cook

To say hurray for the end of school and the start of summer fun, we've planned a casual buffet for midday or evening. Although designed especially for teen-agers, this help-yourself menu is also appropriate when it's the cook's turn to host a meeting at home.

For busy June evenings, we offer a 30-minute supper with a flavorful but calorie-wise entrée everyone can enjoy. Or choose oven-simmered spareribs for a dinner that requires a minimum of last-minute attention.

School's-out celebration

This is a party where all the food is eat-out-of-hand. The spicy, substantial beef-and-bean-filled roll-up pastries can be made ahead and kept in the freezer until an hour before baking.

Nachos Roll-ups
Raw Vegetables **Guacamole**
Corn or Tortilla Chips
Melon Wedges **Cookies**
Iced Soft Drinks

If you assemble the roll-ups a day ahead, simply refrigerate them until baking time. But if your group is large, you may want to make several batches, as time

Give him three new "old secrets" to barbecue. All quick and easy from Foster Farms.

Foster Farms wants to let you in on some tempting new bastes. They're made with ingredients you have around the house. Simple and quick. And the barbecuing man in your life can be certain of success because he's using California's freshest chicken—Foster Farms, always plump, tender and juicy. That's a "secret" we've never been able to keep to ourselves.

Talk of the Town
Baste chicken parts with melted orange marmalade, a touch of prepared horseradish and Worcestershire sauce.

Pantry Relish
Brush chicken parts with equal amounts ketchup, mustard and pickle relish.

Chili Bird
Sprinkle whole legs with chili powder; brush on equal parts thawed frozen orange juice concentrate and vegetable oil.

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There's no place like home for a great dinner out!

You don't have to eat in a restaurant for good food and fun times. Stay home and barbecue. Gulf Lite and "one match" is all it takes to light your barbecue fire. Clean, fast-burning Gulf Lite adds no soot, no odor, no taste. So try this great new recipe—and don't forget to use Gulf Lite.

Cheese-stuffed Patties

Mix 1 lb. ground beef, ½ teaspoon salt and dash of pepper. Between sheets of waxed paper, roll out patties ¼ inch thick. Center half of patties with small amount of shredded American cheese and chopped onion and barbecue sauce. Top with remaining meat patties; press edges to seal. Grill over medium-hot coals about 7 minutes. Turn; grill 6 to 7 minutes more. Makes 3 burgers.

Barbecue with Gulf Lite-the "one match" charcoal starter.

permits, and store them in the freezer.

Choose three or four kinds of vegetables—such as carrot or celery sticks, zucchini slices, cauliflowerets, cherry tomatoes, or red or green bell pepper strips—and arrange them around a bowl of homemade guacamole or purchased frozen avocado dip, thawed.

Nachos Roll-ups

- ½ teaspoon salt
- 1½ pounds lean ground beef
- 1 large onion, finely chopped
- 2 cloves garlic, minced or pressed
- 1 can (17 oz.) refried beans
- 2 cans (4 oz. *each*) diced green chilies
- About ⅓ cup prepared taco sauce
- 6 cups baking mix (biscuit mix)
- 1½ cups milk
- 3 cups (¾ lb.) shredded sharp Cheddar cheese
- Melted butter or margarine

Sprinkle salt in the bottom of a wide frying pan over medium-high heat; crumble in the meat and cook until browned. Add the onion and garlic and cook until onion is limp. Discard any excess fat and set meat mixture aside.

Stir together the beans, chilies, and taco sauce (taste and add more sauce, if desired). Set aside.

Measure baking mix into a large bowl; add milk and mix until evenly moistened. On a lightly floured board, roll out the dough, ⅓ at a time, into rectangles each about 12 by 18 inches. Cut each of these into nine 4- by 6-inch rectangles. Cover each of the small rectangles evenly with the meat mixture, spreading it to within ½ inch of edges. Next, evenly spread the bean mixture over the the meat, then sprinkle with the cheese. Starting with a long side, roll up each rectangle and arrange, seam side down, on greased rimmed baking sheets. If made ahead, cover and refrigerate (or freeze) at this stage.

Just before baking, brush tops lightly with melted butter. Bake, uncovered, in a 450° oven for 10 to 12 minutes or until browned. (If frozen, let stand at room temperature about 1 hour, then bake in a 400° oven for 15 to 20 minutes.) Let cool about 10 minutes before serving. Makes 27 roll-ups.—*C. J., San Anselmo, Calif.*

30-minute supper

This colorful but quickly prepared menu serves four. Keep it in mind when you're having guests on a workday evening.

Curried Turkey Meatballs
with
Hot Buttered Spinach
Butter Lettuce Salad
Oil and Vinegar Dressing
Crusty Rolls Sweet Butter
Bananas Melba

Assemble the dessert and refrigerate it until needed. While the meatballs are baking, there's time to cook the spinac and make the salad.

Curried Turkey Meatballs with Hot Buttered Spinach

- Yogurt sauce (recipe follows)
- 1 pound ground raw turkey
- 1 small onion, finely chopped
- ½ cup small-curd cottage cheese
- ⅓ cup raisins
- 2 teaspoons curry powder
- 1 egg
- ½ teaspoon salt
- 2 packages (10 or 12 oz. *each*) frozen chopped spinach
- 1 to 2 tablespoons butter or margarine
- Salt, pepper, and ground nutmeg

Prepare yogurt sauce, cover, and chill

In a large bowl, combine the turke onion, cottage cheese, raisins, curr powder, egg, and the ½ teaspoon sal mix well. Shape meat mixture into 1½ inch balls and arrange on a light greased 10- by 15-inch rimmed bakin pan. Bake in a 425° oven for 15 to 1 minutes or until meat is no longer pin in center when slashed.

Cook spinach according to package d rections. Drain well and season to tas with butter, salt, pepper, and nutmeg.

Arrange spinach on a serving plate, to with meatballs, and pass yogurt sauce t spoon over. Makes 4 servings.

Yogurt sauce. Combine 1 cup unflavore yogurt, ¼ cup chopped Major Grey chutney, and 2 sliced green onions.

Bananas Melba

- 5 medium-size bananas
- About 1 tablespoon lemon juice
- 2 cups raspberries (sweetened to taste), or 1 package (12 oz.) frozen sweetened raspberries, thawed
- ¼ teaspoon ground cinnamon
- ½ cup whipping cream
- ⅛ teaspoon almond extract
- 4 crisp almond macaroons, finely crushed

Peel and thinly slice the bananas; drizzl with the lemon juice to prevent darken ing. Arrange bananas in 4 individual des sert glasses (about 1½-cup size). Gentl combine the berries with cinnamon an spoon over bananas. Whip the cream then blend in almond extract; spoon ove berries and sprinkle evenly with cook crumbs. Chill until serving time. Make 4 servings.—*L. G., Bremerton, Wash.*

Easy-on-the-cook dinner

With a salad that waits in the refriger ator, spareribs that bake unattended i the oven, and noodles that cook in onl 3 minutes, you can relax before dinner

Sweet-and-Sour Country-style Ribs
Seasoned Noodles
Lima Slaw
Chocolate or Butterscotch Sundaes

You can prepare the slaw and dressing early in the day; cover and chill separately, then combine just before serving Allow about 1½ hours for the ribs to

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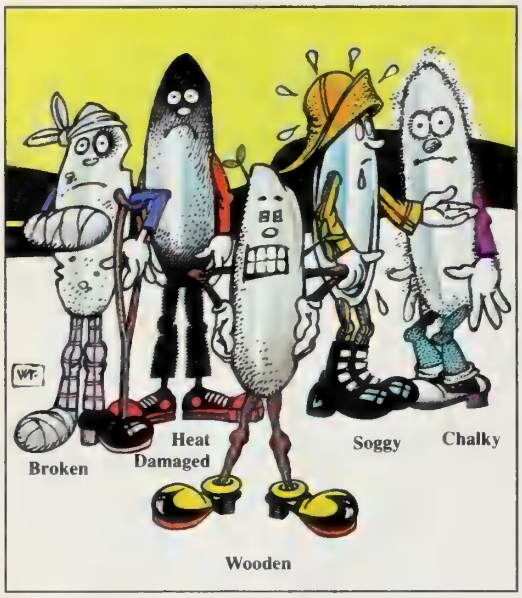
THE RICE TRUTH:



rice as they grade eggs. The grades range from One, the Elite, to Six which is passable. MJB's Grade One has a subtle sun-earth flavor and cooks up delectable. Exquisitely fluffy. Every time. Lift the lid off a pot of freshly steamed Grade One rice and inhale the warm wonderful aroma. You *know* the difference. Grade One is seeable in the box. Sprinkle MJB Rice in your hands and you see little if any broken grains. Enjoy the goodness of an unsurpassable rice. From the people who bring you Grade One Long Grain Rice.

Ah! You've failed rice. It was wooden or soggy or mushy. You, who can whip up the wildest chocolate souffle...flunked rice. Might we point out that *you* may not have failed at all. In truth, you may have been living under the misconception that all rices are like all other rices.

This is not true. Some are mediocre. Some are outstanding —like MJB.

Away with Trial and Error Rice Cooking

All rices promise perfection. But only by beginning with the best can you *be* the best. Today, the government has nicely graded

MJB **Another fine food from the MJB Family.**

bake tender. Ladle some of the sauce over meat; pass the rest at the table for the seasoned noodles.

Sweet-and-Sour Country-style Ribs

- 3½ to 4 pounds country-style spareribs
- ¾ cup soy sauce
- ¼ cup *each* water and dry sherry, *or* ½ cup water
- ¾ cup sugar
- 1 teaspoon ground ginger
- 2 cloves garlic, minced or pressed
- 1 can (8 oz.) crushed pineapple
- 1 large onion, sliced
- 2 medium-size green or red bell peppers, seeded and cut in 1-inch squares
- 1 tablespoon cornstarch blended with 1 tablespoon water

Arrange spareribs in a shallow roasting pan. Bake, uncovered, in a 425° oven for 30 minutes.

Combine the soy sauce, water, sherry, sugar, ginger, garlic, and pineapple with its syrup. Mix well to dissolve sugar.

Remove ribs from oven; reduce temperature to 325°. Discard excess fat from pan. Pour pineapple mixture over ribs; cover tightly with foil, and bake for 30 minutes more. Then add the onion and green pepper, cover, and bake 30 more minutes or until meat and vegetables are fork-tender.

Lift meat and vegetables to a serving platter; keep warm. Skim fat from pan juices; blend in cornstarch mixture and cook, stirring, until thickened. Spoon some of the sauce over meat and vegetables; pass the rest at the table. Makes 4 to 6 servings.—*R. L., Los Gatos, Calif.*

Seasoned Noodles

Following package directions, cook 2 to 3 packages (3 oz. *each*) Oriental noodle soup mix with pork flavor packet—but drain well before adding the flavor packets. Then stir in 2 to 3 tablespoons butter or margarine. Turn into a serving dish and garnish with chopped parsley. Makes 4 to 6 servings.

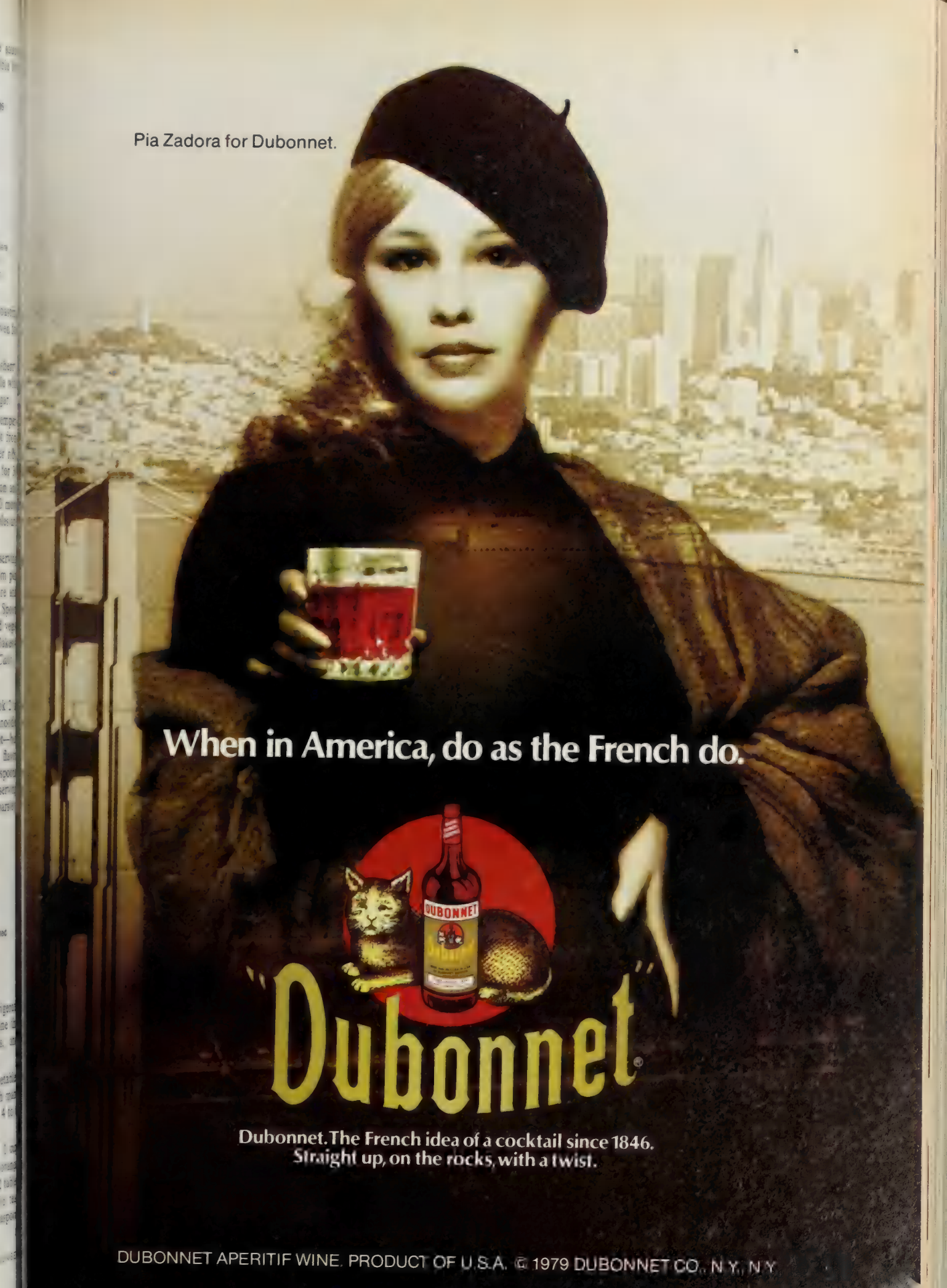
Lima Slaw

- Sour cream-orange dressing (recipe follows)
- 4 cups finely shredded cabbage
- ¼ pound bean sprouts
- 2 medium-size carrots, shredded
- 1 to 1½ cups frozen baby limas, cooked according to package directions
- 3 green onions, thinly sliced
- 1 can (11 oz.) mandarin oranges, drained (optional)

Prepare dressing; cover and refrigerate 2 to 6 hours. Meanwhile, combine the cabbage, sprouts, carrots, limas, and green onion. Cover and chill.

To serve, pour dressing over vegetables and mix thoroughly. Garnish with mandarin oranges, if desired. Makes 4 to 6 servings.—*G. K., Los Angeles.*

Sour cream-orange dressing. Mix 1 cup sour cream, ½ teaspoon grated orange peel, 1 tablespoon orange juice, 2 tablespoons *each* sugar and vinegar, ½ teaspoon salt, and about ⅛ teaspoon crushed red pepper. □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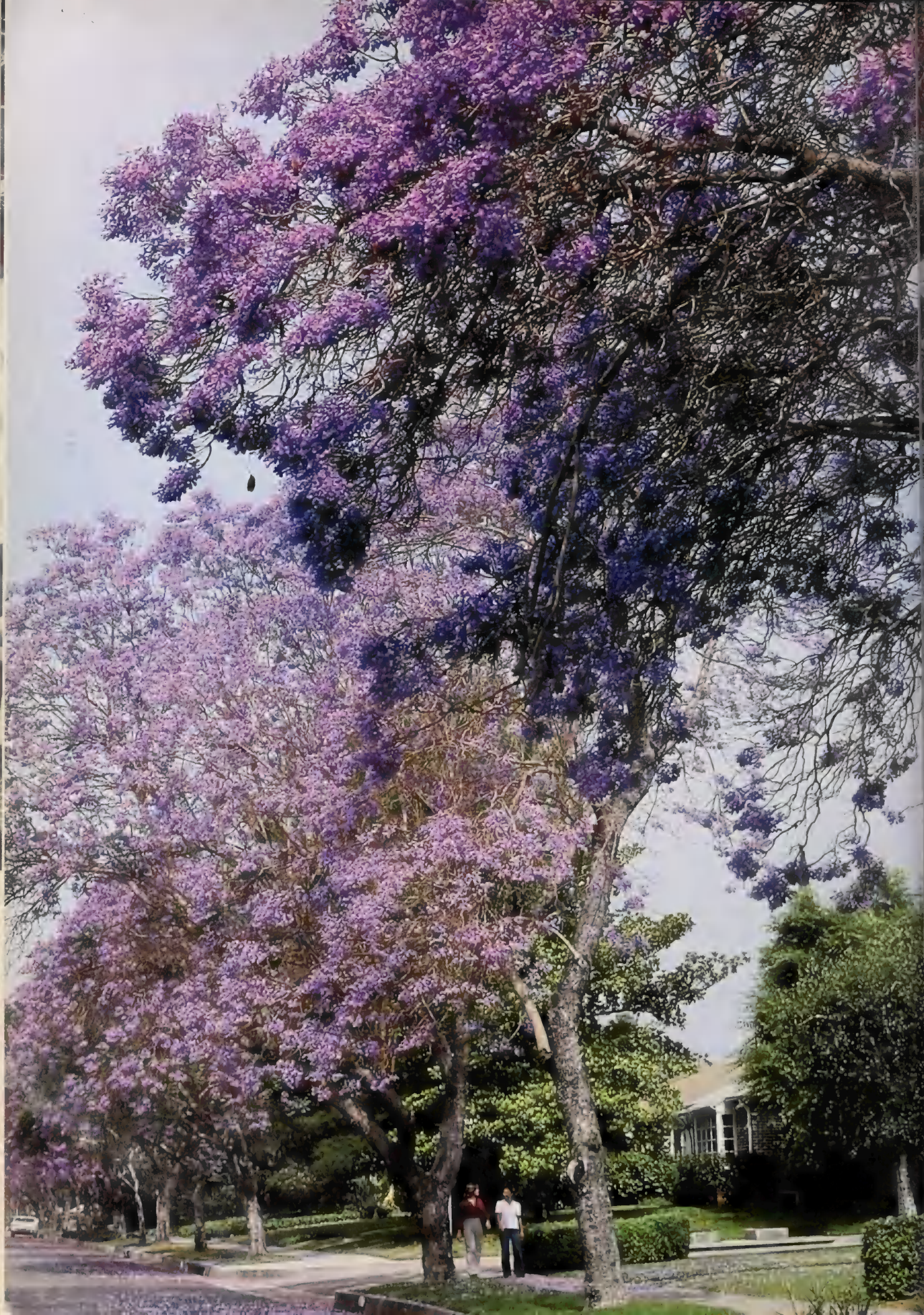

JUNE IN YOUR GARDEN:

Still time to plant summer flowers, vegetables. But you better move quickly

une already? The kids have started the ountdown to the last day of school, and 's time to think about beach gear, pic-ics, and road maps—*and* petunias, aisies, fresh vegetables, and cool lawns n a summer evening.

he finishing-up you do now makes ıose summer visions come true. You an still plant flowers and vegetables, but o it right away. If you'd like a bright ɔlash of color, think of bougainvillea. he story starting on page 94 shows you ɔme of the choices.

uckered daisies? Look for thrips

hen marguerite blossoms fail to open roperly and flowers are blemished with ttle black dots, it's a good bet you're eing the work of thrips. These insects e a common problem in northern Cali-ɔrnia, especially in late spring and early ımmer.

or a diagnosis, break apart one of the storted buds and shake it over your and or a piece of white paper. You may eed a good hand lens to spot thrips, nce they are tiny—about 1/16 inch ng. If they're there, you'll see active tle light brown insects moving around e paper.

you don't find any creatures, the mptoms on your marguerites could mply indicate poor growing conditions. Check that you're watering and feeding regularly.

If thrips do appear but plants don't seem seriously affected, you may prefer to snap off distorted buds and destroy them. Heavy infestations can be sprayed with malathion, orthene, or meta-systox-R; repeat applications according to label instructions. If plants are old and woody, it may be easiest to pull them up and replace them with young healthy ones.

When eggplants and peppers need extra heat

Gardeners in cool-summer climates need to give eggplants and peppers all the heat they can get. One way to do this is to plant them near protective—and reflective—house walls and fences where heat is more likely to build up.

Another solution: plant them in large pulp pots or 5-gallon plastic nursery cans so you can move them around to the warmest, sunniest spots on your patio or deck. As both eggplants and peppers are big water consumers, don't let them get too parched in their pots.

Handsome herb . . . lemon thyme

Variegated lemon thyme (*Thymus citriodorus* 'Aureus') is as appealing to the gardener as it is to the cook. You can enjoy its tangy taste (delicious in summer fish and shellfish recipes), or simply admire its colorful foliage.

Give plants warm, well-drained soil in sun or light shade, and minimal watering; they'll grow into loose, spreading mounds 18 inches across and 4 to 12 inches high. Plants are evergreen and last several years. Regular snipping should

Sunset's GARDEN GUIDE

NORMAN A. PLATE

Crush a few leaves *for the citrus scent. Lemon thyme's tiny yellow and green leaves add color to a border*

ple show-stopper for mild-winter California

andas burst into billowy clouds of 2-inch-long flowers in thick clusters this h. A carpet of fallen petals below soon mirrors the display overhead. Trees n most heavily in Southern California, where they get ample heat, if given ar but infrequent watering. Cool weather may postpone bloom until July or later.

owers fade and drop, trees fill out with an airy canopy of finely cut, fern-like s. Mature trees can take frosts to the low twenties, young trees are more tender.

m time is a good time to plant. And you won't have to wait years for trees to r—jacarandas often begin blossoming in 5-gallon cans. They can grow feet in 10 to 15 years. In jacaranda-growing areas of Northern California (the est coastal and Bay Area climates), plant in a spot sheltered from wind and frost, as near a south or west-facing wall.

panion plants that bloom at the same time can heighten the color impact. juga, yellow daylilies, marguerite daisies, star jasmine, white oleander, or nnial statice.

Sunset's GARDEN GUIDE

JERRY FREDRICK

Flowers *like miniature yellow marguerites cover golden fleece summer to fall. Foliage is thread-like, bright green, aromatic*

keep them trim; otherwise, cut them back once or twice a year to keep plants full and compact.

Most nurseries carry lemon thyme plants, but you can also order plants by mail. Taylor's Herb Gardens Inc., 1535 Lone Oak Rd., Vista, Calif. 92083, will ship small plants (they stock more than a dozen other kinds of thyme as well) in 2¾-inch pots. Write for a free catalog.

Grow a little golden fleece

Golden fleece is the whimsical name of a little daisy-flowered annual you can plant this month.

This Southwestern native (also called Dahlberg daisy: *Dyssodia tenuiloba*) likes full sun and well-drained soil, making it a good choice for rock gardens and the top of retaining walls.

In flower beds, plant golden fleece 6 inches apart to form a low, billowy border about 8 inches high with masses of tiny golden yellow flowers. It also makes a cheerful addition to containers of mixed flowers. In hanging baskets, you can use it as you would lobelia and sweet alyssum—to drape basket sides.

Although not as commonly available as some other annuals, golden fleece can be found in some nurseries (in sixpacks or pots) this month. Plants set out now usually bloom continuously until fall frosts. Like lobelia, golden fleece m live over and reseed itself where winte are mild.

Stakes and ties that last for years

The heavy-duty stakes and ties Willia Rau of Dunlap, California, uses for h tomatoes are easy to install and durab enough to reuse year after year.

Heavy metal fence stakes can take a l of abuse. Unlike wood, they don't sp or rot. They come in several lengths generally 5, 6, 7, or 8 feet; a 6-foot stal

JUNE CHECK LIST: *Here is action*

☐ **Care for new plantings.** With hot, dry summer weather coming up, this isn't the best time to plant new trees and shrubs. But you can still do it if you avoid hot spells when planting. Choose the cool of the evening if you can. If weather is hot and clear, shade plants for a few weeks after planting, and keep them evenly moist. (This goes for bedding plants too.)

☐ **Fertilize.** Feed fast-growing summer flowers and vegetables lightly and often. Diluted doses of fertilizer in every watering are a good method for begonias, fuchsias, and other top performers —especially if they're container-bound. Also feed roses and warm-season grasses such as hybrid Bermuda this month.

☐ **Move out house plants.** If your indoor plants go outdoors for the summer, now's a good time to make the move. Give pots as well as foliage a good wash, and remove spent leaves and twigs. Then place plants in the shade of a patio, tree, or roof overhang.

☐ **Plant warm-season lawns.** This is a good month to plant dichondra or hybrid Bermuda lawns and to reseed or patch old ones. Established dichondra may look ragged this month while it goes to seed; feed and water well to promote new growth.

☐ **Plant herbs.** Nurseries ge erally carry a good variety herb seedlings now, so you can ad fresh plants to your garden. If you like to try lemon thyme, take a loo at the first page of this guide.

☐ **Plant summer flowers.** A spring primroses, pansies, an calendulas finish, pull out and r place them with warm-weather fa vorites: celosia, cosmos, dwarf dahl ias, marigolds, petunias, verbena vinca rosea, and zinnias. In shade switch to coleus, fibrous begonias impatiens, lobelia. Try marigolds portulaca, and zinnias from seed fo quick results in a sunny spot.

BILL ROSS

Link-shaped *plastic ties wait at top of metal tomato stake, ready for gardener to snap them off as needed*

JEFF TEETER

Plantings, *paving, and information kiosk give ideas for drought-resistant landscaping. Permanent labels (at right) list plant uses, sizes, and growth requirements*

osts about $3.50. To find them, check vith dealers listed in the yellow pages nder Building Materials, Farm Equipnent, or Lumber.

Mr. Rau uses plastic chain-link ties shown in the picture above) for training is tomatoes, berries, beans, and for a umber of other garden jobs. He buys nem by the gross from a farm supplier. Many nurseries and garden supply ceners sell smaller quantities; a package of 0 costs about $1.

dea shopping at a acramento demonstration garden

you're in the Sacramento area, conder visiting an interesting park that's ot in the local guidebooks: the Model Urban Water Conservation Garden in owntown Sacramento.

While the 1977 drought inspired the garen, its demonstrations of water-saving plants and practices are just as valuable to gardeners today. And the plants are now mature enough (most are two to three years old) to tell you just how well they perform in a minimum-care situation. Many of the herbs and California natives are in full bloom this month.

Besides well-labeled plantings, drip irrigation, mulches, porous pavings, and food gardening all play a part in the garden's design. When you arrive, pick up a descriptive brochure in the information kiosk, and take some time to check the display boards inside.

The garden is at the corner of N and 17th streets, two blocks east of Capitol Park. To get there from Interstate Highway 80, take the 15th Street off-ramp, go north on 16th Street, then turn right on N Street and go one block to 17th. □

e spring and early summer

☐ **Plant vegetables.** If you haven't planted them earlier, et all the hot-weather-growers orn, cucumber, melon, pumpkin, quash, tomatoes, eggplants, and eppers) into the ground now. You an also sow beans, beets, carrots, nd chard. Cole crops such as broccoli, Brussels sprouts, and cabbage on't do well now unless you live in e cool summer fog belt.

☐ **Prune, pinch, stake.** Pinch growing tips on chrysanthemums and newly planted geraniums nd marguerites to force side growth nd full flower development. Fuchsas may need another pinching, too. ie runners of vines to supports, removing ungainly or surplus shoots. Stake dahlias, tomatoes, delphinium, and gladiolus. Cut off faded iris flowers and stalks. Shear spent annuals such as lobelia and sweet alyssum to stimulate another blooming period, and tidy up faded spring perennials.

☐ **Treat powdery mildew.** Look for it on new leaves and tips of susceptible plants such as begonia, crape myrtle, dahlia, rose, and zinnia. There are a number of fungicides available to treat powdery mildew; some are better for certain plants than others. Check the labels and talk to a knowledgeable nurseryman to determine your needs.

☐ **Trim roses.** Continue to prune and shape rose bushes as you gather flowers or trim spent blooms.

☐ **Water and weed.** Little, if any, rain will fall from now until October, so plants depend on your vigilance to keep them from drying out. To cut your chores and your water bills, rely on some water-saving practices—mulching, building watering basins, deep soaking instead of light sprinkling. Consider switching to drip irrigation where you can.

Hoe or pull summer weeds (crabgrass, purslane, spotted spurge) while they're still young and shallow-rooted.

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NORTHERN CALIFORNIA

Sacramento. June 7 and 8. Show by the Sacramento Fern Forum. Place: The Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Vacaville. June 8. Vaca Valley Bonsai Club show. Place: Community Center, 1100 Alamo Rd. Hours: noon to 5. Free.

Sacramento. June 14 and 15. Fuchsia show by the Sacramento branch, American Fuchsia Society. Place: Shepard Garden and Arts Center. Hours: 2 to 5 Saturday; 10 to 5 Sunday. Free.

Stockton. June 14 and 15. Annual show of the Stockton Cactus and Succulent Society. Place: Sherwood Mall, 5308 Pacific Ave. Hours: 10 to 6 Saturday; noon to 4 Sunday. Free.

Palo Alto. June 28 and 29. Akebono Bonsai Club exhibit. Place: Buddhist Temple, 2751 Louis Rd. Hours: noon to 9 Saturday; 10 to 6 Sunday. Free. Bonsai techniques will be demonstrated both days at 3 P.M.

Santa Cruz. June 28 through July 1. Herb symposium by the Platonic Academy of Herb Studies and the University of California Extension. Place: UC Santa Cruz campus. For further information and registration, telephone Lorri Ungaretti, UC Extension, at (408) 429-297[illegible]

COLORADO

Denver. June 3 and 5. A Tuesday and Thursday class on wildflower families. Bring a hand lens. Place: Denver Botanic Gardens, 1005 York St. Hours: 1 to [illegible]. Fee: nonmembers $9, members $6. The class is limited, so call the gardens at (303) 575-2547 for reservations.

Denver. June 4. Tree walk at the University of Colorado, Boulder. Meet in Denver at 909 York St. at 8 A.M., or at Regent Hall on campus at 9 A.M. Fee $1.50 plus driving expense. To register call the gardens at (303) 575-2547.

Denver. June 14 and 15. Show by the Denver Bonsai Club. Place: Horticulture Hall, Denver Botanic Gardens. Hours: [illegible] to 4 Saturday; 10 to 4 Sunday. Call the gardens at (303) 575-2547 for details.

Colorado Springs. June 21. A plant walk at the demonstration garden of the Horticultural Art Society. Place: Monument Valley Park, Glen Ave. and Mesa Rd. Free. For required reservations, telephone (303) 635-1909 or 475-9267.

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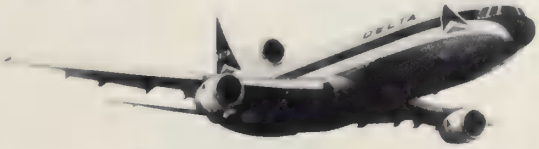

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DAVID STUBBS

To bend alliums, *tie head to stem with cloth. Pastel blue and white grouping has bent and straight stems*

The trick is to bend the alliums

This simple, graceful arrangement us dried alliums with straight and curve stems. Gardener Frances Miller of Ren Nevada, devised a way to bend the lon stemmed flowers for dried bouquets.

In June, when the blooming allium stem are supple, bend over the flower hea and tie them to the stems with a strip cloth or a piece of twine. To vary th curve, tie the flower heads at differen distances down the stems. Leave the ti on until flowers and stems are complete dry, then cut off the stalks near th ground, snip off the leaves, and place th flowers in a vase. In two months, th flowers will dry completely and the co ors fade to soft pastels.

Although the flower heads lose som fluff each year, dried alliums (particu larly *A. giganteum*) last two to thre years or more.

If your garden doesn't include orna mental alliums, plant bulbs in early fa for flowers next year.

The Bird siding on this house is 8 years old.

Eight years ago it would have cost the family who lives here $2125 to paint this house. Four years after that it would have cost $2720. And today, four years after that, it would cost $3910. That adds up to a total of $8805* over the last eight years just to keep this house from peeling. But instead, this family spent just $2890 on Bird solid vinyl siding. Now they're happy to know the siding's already paid for itself 3 times over. And they'll go on saving thousands for the next 32 years because their Bird siding is guaranteed for a total of 40 years.

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Sunset—June

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Ordinary potting soils can contain weed seeds, insect eggs, root-destroying nematodes—even waste product chemicals.

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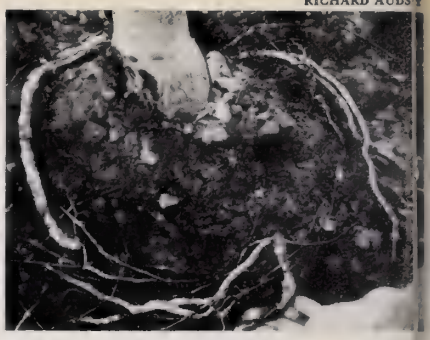
RICHARD AUDSLEY



With soil washed off, *two-year-old roots still show outline of 15-gallon can*

DAVID STUART

Use sharp spade or knife *to cut several deep grooves in sides and bottom of rootball before planting*

How to score a rootball

"Score the rootball several times befo you plant." Over the years, *Sunset* h repeated this advice a number of time It applies to container-grown plants yo bring home from a nursery.

Scoring the rootball stops the roots fro growing in a circle. In our top pictu above, you see what can happen to rootbound young plant set in the grour without scoring: its roots continue grow in a circle, as they did in the orig nal container. A plant with circled roo grows slowly and is poorly anchored the soil—as a tree-planting crew in Ga den Grove, California, learned whe they dug up the two-year-old *Liquid ambar styraciflua* 'Palo Alto' shown the photograph above.

Cut circling roots by scoring them wit a shovel or knife, and new roots wi grow outward. If you buy a plant in fiber pot, cut through the pot or remov the plant to score the rootball. (Delicat rooted bougainvillea is the rare excep tion to this rule: plant it undisturbed.)

How to get your money's worth in a flea and tick collar.

Compare claims against price. No tick and flea collar claims better protection than Pet'm. It kills both ticks and fleas for up to five months. Yet costs as much as 35% less than competitive brands!

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BILL ROSS

Overgrown in its container, *'Rosenka' has sparse foliage, few blooms (left). To promote new growth, he's nipping back long scraggly branches to 5 or 6 inches*

Bougainvilleas in containers need a nippy working over

Drastic action is necessary if you have an overgrown container bougainvillea. By pruning back branches in spring or early summer, you will get denser foliage and a better flower display on shrubby varieties such as 'Brilliant Variegata', 'Crimson Jewel', 'Hawaii', 'La Jolla', 'Rosenka', and 'Temple Fire'.

Generally, container bougainvilleas need at least one major pruning each season. Apply a complete fertilizer to stimulate growth after each pruning.

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Totally versatile. ORTHO's new KLEENUP® Systemic Weed and Grass Killer kills both weeds and undesirable grasses like quackgrass, orchardgrass, and bermudagrass. Spot-kills or removes whole patches. For trimming edges of lawns and driveways or cleaning up weeds around trees, shrubs, fences. Or for replacing an entire lawn.

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Re-seed a lawn in 7 days. When the chemical in KLEENUP comes in contact with the soil, it deactivates. You can re-seed in only 7 days. Follow standard re-seeding practices. KLEENUP kills both weeds and grasses (including the tough ones), roots and all. Talk to your ORTHO dealer.

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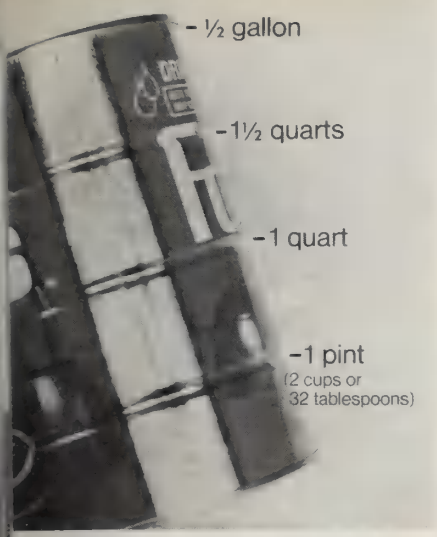


ıdentations *on a 2-pound coffee can ıake it easy to measure cups and quarts ›r large-quantity fertilizing*

To make a big batch, *use a 5-gallon bucket to mix 1 quart (the same as 64 tablespoons) fertilizer with 4 gallons of water*

PETER O. WHITELEY

Mixer-proportioner *(about $6) hooks onto hose bibb. Rubber tube drops into bucket of fertilizer solution*

Feeding lots of plants while you water...with a siphon device

/atering and fertilizing are two of ıne's biggest gardening jobs. If you use quid fertilizer and have a large collec- ›n of flowers and vegetables, it can ean hours of bending over the water- g can mixing and applying fertilizer lutions. One way to save time and ef- rt is to use a mixer-proportioner that ts you feed plants at the same time you ıter them.

ıis siphon device, attached between ›se bibb and hose, draws a concen- ıted solution of fertilizer into the line. ›u mix up the solution in a bucket, at- ch the brass nozzle to your faucet, and ed plants from the hose. Instead of 1 2 gallons at a time, you can deliver 1 100 gallons of diluted fertilizer.

st use a soluble fertilizer, whether it's bottled liquid like the fish emulsion ed in this example, or a dry granular rmula. Here's the simple procedure u follow to make up large batches:

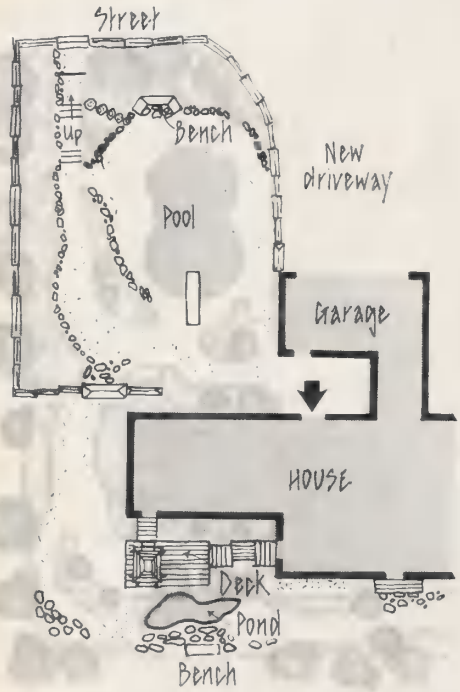
ıe device dilutes the fertilizer concen- te (in the bucket) with hose water in a ›portion of about 1 to 16, so if the ›el on your plant food says to mix 1 ›lespoon to a gallon of water, you'll ed to use 16 tablespoons per gallon the concentrated solution. This, in ect, gives you 16 gallons of delivered nt food mix. To mix larger batches fertilizer, just make more concentrate.

r example, the 1 quart (64 table- ›ons) of fertilizer mixed up in the ›tographs above yielded 64 gallons of ›perly diluted solution delivered ough the hose. □

DAVID STUBBS

Hose delivers *proportioned mix of plant food. Another aid: a hose end wand attachment to extend your reach, apply solution where you want it*

Following the curve *of the original driveway (above), subtly landscaped garden walkway (right) now leads in from street. Sketch below shows location of new driveway; garage door was moved to face it. New fencing, gates, plantings, promote sense of tranquil privacy*



Old concrete driveway, old concrete patio . . . gone

New pool and mounding garden . . . new pathways, new gates, a new deck

Three years ago, a sweep of concre driveway preempted most of the sunn level ground in this sloping yard in Hill borough, California. Behind the house, slab of concrete served as patio space.

Owners Stephen and Margo Pace hav changed all that. With the drive rel cated, some adjustments to grading, an thoughtful landscape design, they'v created an interestingly varied outdoo space where they can swim, amble ami greenery, or find a private spot for sol tude or conversation.

The aggregate path leading in from th street retraces part of the original drive From it you can short-cut down round of sunken pine to a poolside bench, o descend low risers to approach the rear garden gate and the house.

To avoid glare and to gain a mor

BILL ROSS

nother roofed gate *goes from front yard to back. oliage varies from baby's tears underfoot to bergenia, tsia, bamboo, rhododendron, conifers*

Angled beam-ends *give deck roof an Oriental look. Deck floor was built over an old slab*

Rockwork eases transitions *from gravel path to raised bed and landing outside back door of the house*

Rounds *from felled pines pass through ajuga to make shortcut path toward pool*

DARROW M. WATT

tural look, the owners-designers chose ue-gray walls for the pool and aggre- te for the paving around it. They ounded planted islands of soil to cut ved surfaces into smaller terraces. oulders removed when the pool was g now anchor these soil mounds.

bsoil excavated from the pool site was o put to use: it became fill to level the w driveway. Terraced beds that sup- rt the downhill side (not shown in our etch) are themselves shored up with unks of the old concrete drive.

the rear garden, the Paces removed - to 5-foot-wide section of the old con- ete patio to allow for plantings be- een the house and a new deck built er the rest of the slab. Topsoil intro- ced here and along the gravel paths anchored with stones where necessary, to keep house foundation, tree trunks, and pathways clear. Small, stone-paved areas throughout the rear garden are secluded alternatives to the main deck.

Despite all the variety, the garden has a restful, harmonious effect overall. Predominant colors of both plants and structures are subdued greens, grays, and browns, with seasonal accent color from plants such as azaleas, camellias, and rhododendrons. Plants that bloom at the same time are identical or similar in flower color, and are distributed in loose clusters throughout an area for a unified, nonspotty look. Nonblooming plants are massed in groupings large enough to stand out, but limited enough to avoid monotony. Foliage textures and plant heights, though varied, blend pleasantly, too. □

No more dawdling. Gardens really get going now. Here are ways to help

Sunset's MOUNTAIN STATES GARDEN GUIDE

Early June is when warming soil and air temperatures in the high-elevation areas get newly started plants growing rapidly. Until then, as a reader from Florence, Colorado, wrote us, "plants just dawdle along." Some mountain gardeners begin work in May, but you can plant in June and still have enough frost-free months to bring in a good crop of vegetables and flowers—if you move quickly.

Mr. Parsley raises other crops—up high

In 8,800-foot Bailey, Colorado—at an altitude that is higher than that of many ski resorts—Hal Parsley manages to produce a wide assortment of cool-season vegetables.

Some of his secrets: French-intensive-style raised beds, next to a heat-retaining wall; the right cool-weather varieties; and protection from garden-loving animals, especially rabbits.

Here are the plants he starts from seed: 'Kentucky Wonder' pole beans; beets; broccoli; 'Red Core' carrots; 'Red Rock', 'Savoy Ace', and 'Surehead' cabbage; cauliflower; Swiss chard; kale; onions; parsnips; peas; potatoes; rutabagas; and spinach.

A 24-inch-high fence of chicken wire is enough to discourage most rabbits, but more persistent ones are trapped (with a peanut butter bait), then released several miles away.

Meet a colorful native

Plants native to the Rocky Mount are dull and colorless, right? Not alw The Shubert chokecherry (*Prunus giniana melanocarpa* 'Shubert') puts a four-season show. In spring, this tive is covered with white flowers. summer, new foliage shows green, tu ing bronze as it matures and finally coming orange in the fall. Winter is an attractive gray.

Plant Shubert chokecherries in full or part shade. They're useful un taller trees because of their limited (up to 20 feet high, 6 to 10 feet acro They thrive in almost any soil and, o established, need little water. Pull occasional suckers, unless you'd lik multitrunked tree.

The small black fruit is edible and ma excellent preserves. But to save ot cherries in your garden, you may w to let the birds have these: birds seem prefer them to any other cherry.

In raised bed *beside heat-holding wall of railroad ties, Hal Parsley grows onions at 8,800 feet*

BARRY STAVER

Bronze foliage *of three tall Shubert chokecherries adorns entrance to Denver Botanic Gardens' Boettcher Center. They were planted eight years ago from 5-gallon cans*

nurseries now:
rnucopias of young vegetable plants

places where the growing season may t only three months, it can be difficult raise warm-season vegetables (cucum- s, eggplant, melons, peppers, toma- s) to maturity unless you start them loors weeks ahead. For gardeners who ssed this step, nurseries now stock a d selection of young vegetable plants dy to be set outdoors.

u'll find warm-season plants sold in -inch pots (35 cents to 60 cents), 4- h pots (60 cents to $1), and six-plant packs (80 cents to $1.50)—and pos- y some tomatoes or peppers in gallon s ($2 to $3.50). Strawberries, rhu- b, and asparagus are also in the nurs- s now, usually in 4-inch pots or gal- cans.

ne nurseries offer lettuce, corn, and ns as started plants. Buy seed instead. you plant early this month, there's time to get a good crop from seed.

ew grass for salty soils

erennial lawn grass that's extremely rant of salty, alkaline soils is becom- available to home gardeners: it's *cinellia distans* 'Fults'. This variety first grown on a Colorado golf rse, in salty areas of a fairway.

ppearance, color, and texture, 'Fults' omewhat similar to Kentucky blue- s, making it an inconspicuous bridge other grasses that can grow where e's less salt in the soil. 'Fults' grows 12 to 14 inches high if left uncut. It goes dormant in winter.

You won't yet find seed for this grass in retail stores. To learn how to get it, write to 'Fults', Northrup-King, Box 959, Minneapolis, Minn. 55440.

Try this tough, unthirsty ground cover

Many landscape planners in the arid West are taking a new look at plants that require minimal watering. Mock strawberry (*Duchesnea indica*) is one drought-tolerant ground cover that performs well in high-elevation gardens. As its name implies, the plant's foliage, fruit, and flowers resemble those of edible strawberries. But these berries are sour-tasting, except to birds.

Nurseries carry mock strawberry in 2¼-inch pots (45 cents to 60 cents each). Plant in full sun or shade and space plants 12 to 18 inches apart; runners will fill in quickly. Once plants are established, water sparingly or they may invade the rest of your garden. Remove runners that grow where they aren't wanted.

Pole bean trellis

Gardener Albert McGowen of Boulder grows 'Kentucky Wonder' pole beans using the trellis pictured at right. This trellis is a series of tepees, each made from four 8-foot lengths of steel reinforcing bar. The four rods slip through holes drilled in a cross-shaped spacer that's fashioned from two flat pieces of steel welded together. Across the tops of the tepee frames, two horizontal bars are wired in place, 1 foot apart, to provide extra growing room.

After the growing season, the tepees can be taken down in a few minutes or left outdoors through the winter. □

Beans *aren't yet very high, but soon they'll cover tepees made of steel reinforcing bar*

JUNE CHECK LIST: *Here is what most needs doing*

☐ **Feed perennials.** Water in 2 to 3 pounds of high-nitrogen fertilizer per 100 square feet of bed. Wash off any fertilizer that gets on foliage.

☐ **Give ground covers a haircut.** Trim arabis, aubrieta, creeping phlox, dianthus, snow-in-summer, and other low creepers that are past bloom to encourage fresh growth now and profuse bloom next season.

☐ **Mulch.** Use compost, leaves, pine needles, or bark chips around permanent plants to retain soil moisture and slow down weed growth.

☐ **Plant annuals.** If you didn't start seeds of annual flowers and vegetables, shop for them now at nurseries as started plants. Look for small plants that aren't root-bound; they will perform better. (See the item above for advice on buying started vegetable plants.)

☐ **Plant bulbs, corms, tubers.** For color later in the summer, plant gladiolus and montbretia corms, tigridia bulbs, peacock orchids, and dahlia tubers.

☐ **Plant for permanence.** It's the ideal month to plant container-grown or balled and burlapped (B and B) trees and shrubs, as well as flats of ground covers.

☐ **Plant spring-flowering shrubs.** Thin out oldest branches of forsythia, flowering quince, lilac, spiraea, *Rosa hugonis*, and weigela. Remove branches at the base of the plant, but don't take off more than a third of the branches in one year.

☐ **Stake tall plants.** Drive sturdy stakes in around dahlias, delphiniums, double peonies, gladiolus, peppers, and tomatoes to reduce wind damage.

☐ **Thin fruits and vegetables.** Thin apples, apricots, peaches, pears, and plums. Cherries don't need thinning. Thin the weakest beets, carrots, turnips, and lettuce. After thinning vegetables, apply a complete fertilizer.

☐ **Treat iron chlorosis.** Yellow leaves with green veins are an early symptom of chlorotic plants. Apply iron-rich plant food, liquid iron, or iron chelates; follow label instructions.

☐ **Water.** Deep, regular watering of trees, shrubs, lawns, and ground covers helps establish vigorous root systems. Water these plants in late afternoon or evening. Morning watering, however, is best for vegetables that like warm soils.

☐ **Weed.** Weeds rob desirable plants of food, water, and growing space. Get them out now, while they're small and easy to pull.

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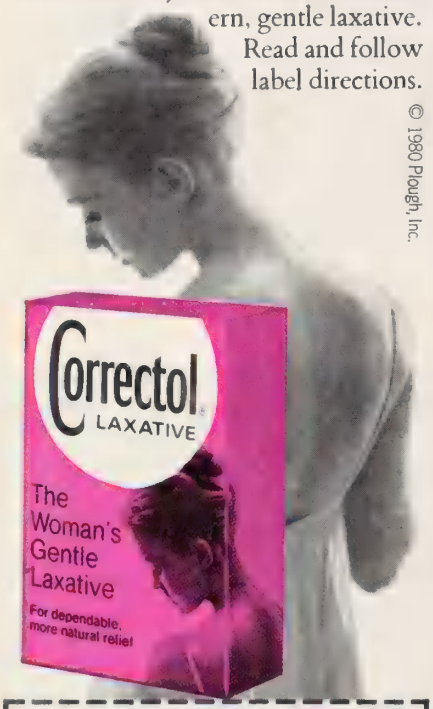

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Ideas underfoot . . . the paving you walk on at Las Hadas

Most eyes are directed upward on a walk around Las Hadas, the splendid resort just northwest of Manzanillo, Mexico. And well they might be—the architecture is a fantastical collection of domes, towers, and sculpted walls. But guests who look down wonder at the great variety of paving underfoot.

Here we show Las Hadas paving patterns and materials that might interest home gardeners.

The message in Las Hadas paving is clear: throw away stiff ideas about what does and doesn't go together. Architect José Luis Ezquerra patterned the wa and lanes with mosaics of Spanish fl tiles, chunks of granite set in concr slim marble tile, local terra cotta t leaf-patterned concrete squares (lan veined leaves are laid on the wet c crete), rounded cobbles, and more. n some cases, all these elements app side by side without jarring effect.

Strong dark colors soak up the sun a great arches of bougainvillea (grow on trellises made simply but elegantly f welded reinforcing bars) shade the tw ing stairs and walks.

Causeway *paved in cobbles, tile, and strips of marble is shaded by bougainvillea on an arch of welded reinforcing bars*

Risers *of thick terra cotta tile hold back freeform stone pattern*

Embedded cobbles *and terra cotta tile decorate curving white concrete steps, provide better traction*

We live on an island with no repairman, so a Maytag Washer is a must for me, writes Mrs. Barclay.

I loved my old Maytag Washer so much, I also got a Maytag Dryer and a Maytag Dishwasher.

It's quite a hassle and expense getting a repairman to come from the mainland to Texada Island, British Columbia, states Mrs. Florence Barclay.

That's why I wouldn't have anything but a Maytag Washer, she continues. She knows they're built to last longer and save money with fewer repair bills, because her first one went 10 years with just one repair. "A close friend now uses our 10-year-old Maytag Washer and it continues to do good service," she writes.

Florence and Harry Barclay

Last year Mrs. Barclay needed to replace her old dryer, so she decided to go all the way — new Maytag Dryer and a new Maytag Washer, too.

I'm fussy about clean dishes, says Mrs. Barclay, and my Maytag Dishwasher does such a super job.

All told, she now has three Maytags—a washer, a dryer, and a dishwasher. They are everything I expected in a Maytag and a joy to use, she states.

Naturally, we don't say all Maytag Washers will equal that record. But long life with few repairs is what we try to build into every Maytag product. See our washers, dryers, dishwashers, and disposers.

XII OLYMPIC WINTER GAMES LAKE PLACID 1980

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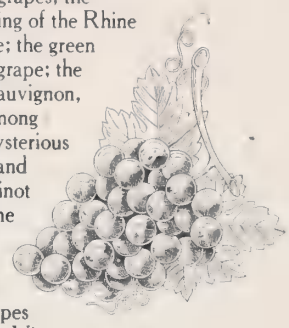
The Maytag Company, Newton, Iowa 50208

How California got its grapes

Most of the grapes that go into making fine California wines are not native, but European. It wasn't an accident that brought them across two continents and an ocean. It was one man's dream.

In exile from Hungary where his family had long been famous for winemaking, Count Agoston Haraszthy came to America, hopeful that somewhere in this vast country he could find the ideal conditions for growing grapes. After twelve years of disappointments, his search came to an end in northern California. Haraszthy was certain that here, in the beautiful Sonoma Valley, with its sunlight, rich soil and moist breezes, he could grow not only the hearty grapes planted by Mission Fathers, but all the delicate European varieties that were as yet unknown to American soil. With this hope in mind, in 1857, Haraszthy built the magnificent winery he named Buena Vista.

In just a few years, Buena Vista became the largest vineyard in the world. Its success convinced Haraszthy to realize his fondest hope, a journey to Europe to take cuttings from the finest grapes of France, Germany, Spain, and Hungary. He brought over, and made available to all California wine growers, close to 100,000 cuttings of 300 varieties. Among them were the Pinot Chardonnay, rare, white grapes; the white Riesling of the Rhine and Moselle; the green Hungarian grape; the Cabernet Sauvignon, aristocrat among reds; the mysterious Zinfandel; and the noble Pinot Noir, to name a few.



Over the last century, the grapes of the Buena Vista vineyards have flourished. And in the spirit of its visionary and single-minded founder, the Buena Vista winery has continued to masterfully produce a brilliant variety of wines with an old-world standard of excellence. Every bottle of Buena Vista is a toast to the man to whom California owes its most exquisite grapes, Count Agoston Haraszthy.

Buena Vista

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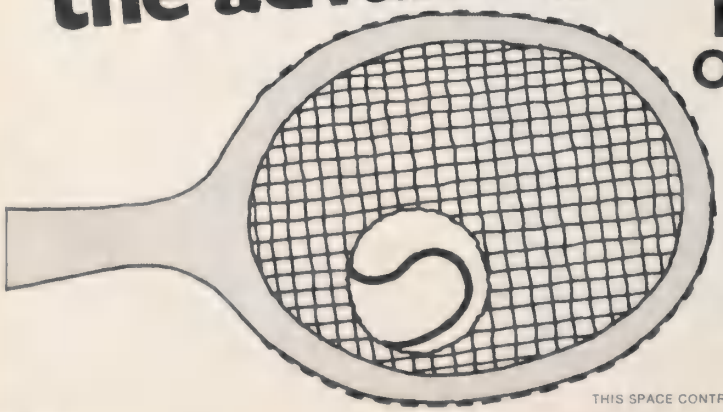

MARCH OF DIMES

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DAVID STUBB

Dangling clusters *of gardenia-scented 2- to 3-inch flowers adorn climbing Chilean jasmine in summer*

Chilean jasmine creeps and climb

For many decades after it entered ho cultural trade in the early 1870s, Chil jasmine (*Mandevilla laxa*) was qu widely planted in coastal and inla valley gardens of California. Today rarely find it in nurseries, and only casionally see it in older gardens.

We think it's time this flowery vine some attention again.

Native not to Chile but to Argentina, *laxa* fills out fast: it will creep, twine, climb (with support) to as much as feet. Roots are hardy down to 5°; plant is deciduous in cool climates, ev green in mild areas.

Plant in sun or partial shade in rich, f draining soil, and water regularly dur the growing season. Thin rapidly gro ing branches before they become ho lessly intertwined. Prune tangled mas to the ground in winter or early spri new growth will come up from the ro and flower during the following summ

M. laxa grows easily from thread-l seed that fills thin, 10- to 16-inch-lo pods and invariably volunteers arou established plants. You can also grow from cuttings taken from firm side sho about 3 inches long.

A few nurseries that specialize in usual plants carry a limited supply Chilean jasmine. Seed is available fr J. L. Hudson, Box 1058, Redwood Ci Calif. 94064.

Ford Motor Company introduces five powerful people who can do more than listen to a problem.

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KATHLEEN HAMILTON
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Office of
Consumer Affairs,
Modesto

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Serramonte
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Colma

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Inspector of Automotive Equipment
Fleet Administration Division
California Department of
General Services, Sacramento

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McHugh
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Los Gatos

The Ford Consumer Appeals Board.

This is an independent review board. A way for us to provide an extra dimension of help for service-related problems.

If you should have a problem with service of any kind, we want you to discuss it with your dealer. He'll do everything he reasonably can to solve the problem. If the problem is still not resolved to your satisfaction, call us. We've got a new toll free number—1-800-241-8450. Tell the Ford Consumer Appeals Board operator about your problem. The operator will put you in touch with the right person—someone who can help. The Ford Consumer Appeals Board will meet to review unresolved service-related problems and seek a fair and just decision on each individual case.

The final decision the Ford Consumer Appeals Board makes concerning each case is binding on the Ford Motor Company and the Ford or Lincoln-Mercury dealer involved. It is not binding on the customer.

The Ford Consumer Appeals Board . . . you'll probably never need it, but it's nice to know it's there.

Don't forget our Toll Free Number. 1-800-241-8450.

The board is available only to Northern California residents for complaints involving Ford Motor Company vehicles and Northern California Ford and Lincoln-Mercury dealers. The board covers service-related cases; it will not review

*complaints arising from the vehicle sale transaction
*complaints currently in litigation or cases that involve alleged personal injury or property damage of the type for which insurance is normally available
*complaints involving requests for consequential damages

FORD

Ford

MERCURY
LINCOLN

Saucer-size blossoms *canopy an arbor over an entrance walk. Two rose plants—climbing hybrid teas—produce this show*

These roses fit special landscaping needs

DARROW M. WATT

Lady Banks' rose *(above) bursts with hundreds of 1-inch flowers in nosegay-size clusters. Six plants, blooming in late spring, are trained to fence at right*

For good old homeyness, color, and fragrance, nothing beats roses. But if you'd like to depart from traditional beds of hybrid teas, there are many other kinds that fit different landscape needs.

The roses framing the gateway pictured above are a climbing hybrid tea variety called 'Mrs. Sam McGredy'. Other climbers—climbing grandifloras, floribundas, polyanthus, and pillar types—can achieve a similar effect. This arbor looks old-fashioned, but it's a recent addition, designed to complement the rustic details of a remodeled house.

Lady Banks' rose (*Rosa banksiae*) stan in a class by itself. It's a climber (about 20 feet), and its aphid- and d ease-resistant nature and evergreen hal (deciduous in cold winters) win it ext points among gardeners in the mild-wi ter West. Look for it in your nurser vine section, rather than among the ro bushes. Choose between pale yellow fragrant white flowers.

Miniatures can do some jobs no oth roses can. Use them for low borders a in containers and baskets. They come a range of colors and flower types. Pla

MAN A. PLATE

STEVE W. MARLEY

Use miniature varieties *for low-growing borders. This one, 'Si', is 6 inches tall, with tiny, rosy white blooms*

iz also vary, from less than 18 inches lmost 3 feet tall. 'Si' (pictured at ig) is one of the tiniest. You can buy ail order or over the counter, from ature Plant Kingdom, 4125 Harri- Grade Rd., Sebastopol, Calif. 95472. re Miniature Roses, 2519 E. Noble , Visalia, Calif. 93277, offers sev- other varieties.

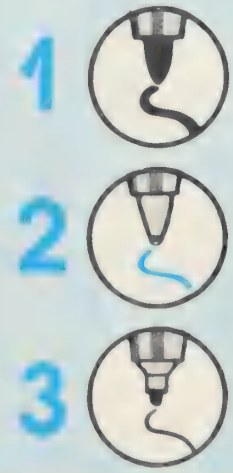
bundas and polyanthas serve as well y bushy, deciduous shrubs in a gar- nd give you fragrance as well. Mid- kinds, like the 3-footers shown in ottom photograph, are some of the useful.

more ideas, consult the *Sunset* book *to Grow Roses* (Lane Publishing Menlo Park, Calif., 1980; $3.95). □

Forty-foot line *of white-flowering floribundas creates a fringe of blossoms between front lawn and driveway*

noblesse
QUICK PEN

from MONT BLANC makes personalizing your writing style as easy as



Matte chrome finish $23*

Choose — the preferred point to match your style of writing with the Noblesse QUICKPEN from Montblanc—a unique 3-in-1 system—one pen, 3 different refills

1. Bold, flowing FELT-TIP! For the sweeping freedom of bold strokes in a style all your own
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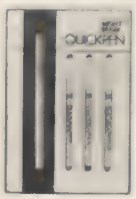
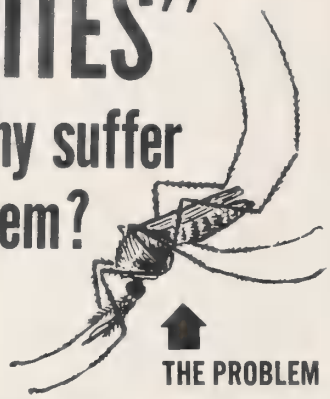


* Suggested retail price

"MOSQUITO BITES"

why suffer them?



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While others swabbed themselves with fly dope, smelling and feeling icky, we took two tablets and suffered much less than our companions. **B.R.P., Bedford, Ma.**

These pills work so well, I have to give your address to everyone that tries them! **C.W.S., San Antonio, Texas.**

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SM-6

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Address_____

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MICHAEL THOMPSON

Nursery clerk *wears patch indicating she's an Oregon Certified Nurseryman —she's passed some tough tests to earn it*

What do those nursery patches mean? Certified Nurserymen

When you want to border a new fence with medium-size flowering shrubs that will grow in shade and bloom in summer, who can advise you what to plant? If you live in any of the states whose shoulder patches are shown on the opposite page, try a certified nurseryman.

Trained in everything from landscape design to diagnosis and treatment of plant problems, these nurserymen (the title includes women) are certified by their state nurserymen's association—not the state itself. To gain the three-year certification, they must have working nursery experience and pass a battery of very tough tests. In California the washout rate is a big 44 percent.

What can you ask them? Nearly anything you'd ask a county extension agent, including questions about insects, di eases, weeds, soils, and indoor plant Most important, they know their nurse stock and can tell you what size eac plant will become, how and where t grow it, and what it will look like. Als to keep their certification, most mu take periodic tests and seminars to kee up with new plants, products, and grow ing techniques.

Most of the people being certified toda are relatively young; many of the oldes most experienced (and best) nurseryme have long since established their repu tations and see the testing as superflu ous. For them, it usually is.

Name tags or shoulder patches tell yo whether a nurseryman is certified. Nur eries that support the program usuall

Shoulder patches *identify certified nurserymen in Washington, Oregon, California, Utah, and Arizona. Emblems also appear on badges*

NORMAN A. PLATE

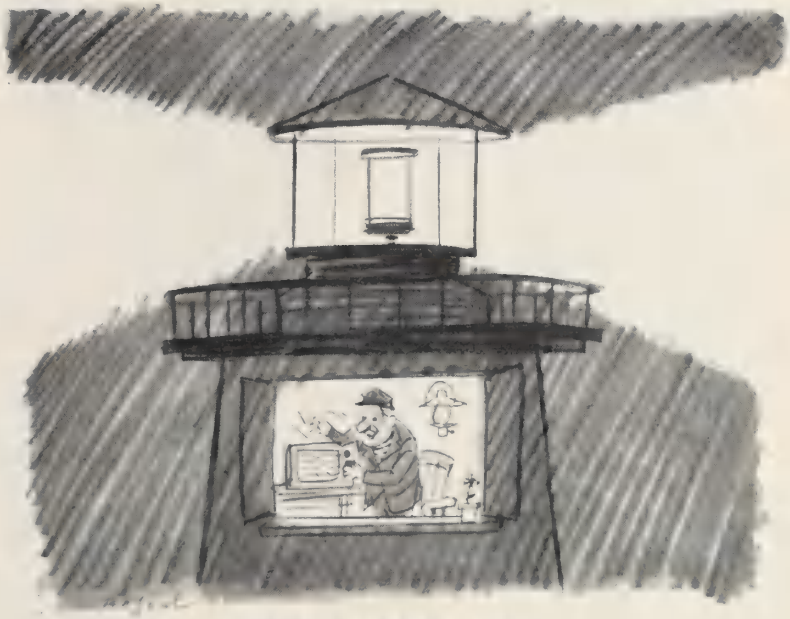
vertise it, post diplomas, and encour- e their nurserymen to take the test.

e California Association of Nursery- n started the certification program 11 ars ago to polish the professional age of retail nurserymen, which was ng clouded both by an influx of rela- ely inexperienced young people and mass merchandisers who offered nty of plants but little advice.

thin a few years, the program ex- ded into the other states. Although ticipation is growing, the number of ively certified nurserymen is still rela- ly small (less than 2,000 throughout West). You may find them anywhere, expect to run into them mostly in e nurseries.

ce this is a fairly new program and that benefits you, you can encourage y asking for a certified nurseryman enever you go into a nursery. Ac- ding to the owners or managers of eral nurseries *Sunset* queried, if they convinced that there is a demand for ified nurserymen, they will try to t it. □

"In the past 15 years, I've had 3 television sets, 6 picture tubes and one refrigerator. A Frigidaire."

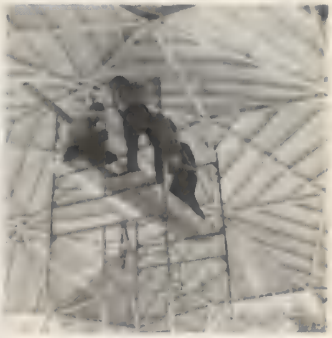


FRIGIDAIRE
HERE TODAY, HERE TOMORROW.

One of the White Consolidated Industries

Our imagination was our only limit!

"Because **Cathedralite Domes** have no load-bearing walls, we were really free to design our own living space."



"A Cathedralite Dome gave us the flexibility to create exactly the house we wanted."

"Designing and building our own Cathedralite Dome has been one of our most exciting, satisfying experiences."

"We are very proud of our home."

Mike & Chris Brummell

Reduce heating costs 30% to 50%

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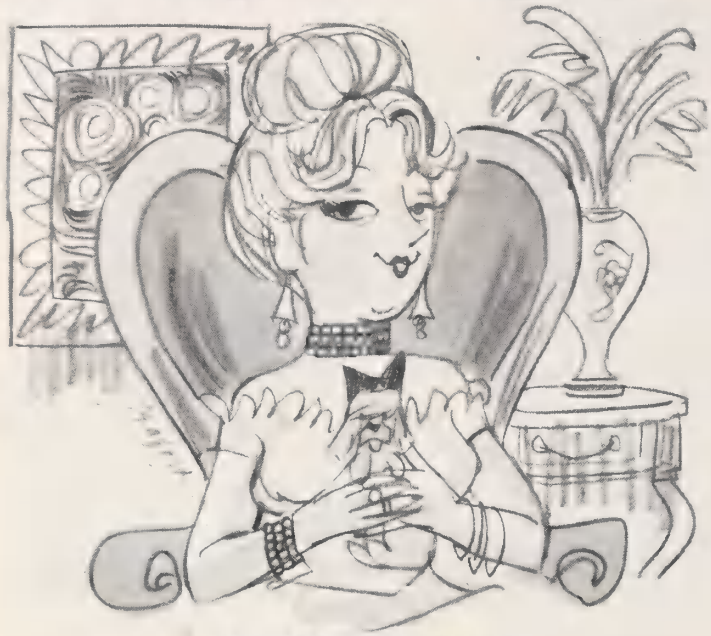
Franchises Available

Distributors throughout the U.S. To visit a model, contact us for your nearest distributor.

"In the past 15 years, I've had 5 husbands, 104 alimony checks and one refrigerator. A Frigidaire."



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We make time a work of art.

A Ridgeway Clock is more than a precision timepiece. It is uncompromised craftsmanship. Magnificent hand rubbed cabinetry. And unforgettably lovely Westminster, St. Michael's and Whittington Chimes. Invest in a work of art. Own a Ridgeway.

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Over 60 Ridgeway Floor, Wall & Shelf Clocks pictured in color. Includes illustrated decorating ideas, clock history and terminology; also dealer names near you. Send $1.00 to Ridgeway Clocks, Div. of Gravely Furniture Co., Inc., Dept. S801, Ridgeway, Va. 24148

Ridgeway

DAVID SIUB

With wooden ram, *you push trimmings into cutting area of shredder, while turning its handle crank*

One hand pushes the other cranks

This hand-operated shredder runs elbow grease rather than fossil fuel.

Designed in England but manufactu in the United States, the Quickr Shredder is nonpolluting and alm noiseless. It weighs 18 pounds, co about $85, and comes knocked down a heavy cardboard container.

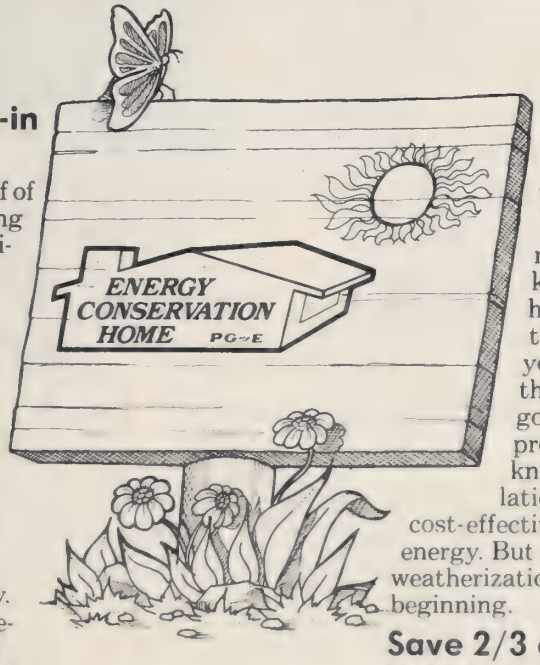
The device can easily handle spent a nuals and vegetables from average-s gardens, and tree and shrub prunings to ½-inch diameter. Unlike some pow driven models, it also works well w soft, wet garden refuse. But it's not a quate for grinding vast quantities leaves or branches thicker than 1 t inches in diameter.

Don't overload the shredder's hopp Use the large end of the wooden r (supplied) to press soft, flexible materi into the cutter; use the other end to d engage jams. Don't touch the cut blades while the machine is in use; ke children away from the shredder.

The basic shredding component is elliptical, carbon-steel cutting blade t revolves inside a tube with slots. Y can sharpen the blade with a file; or, necessary, replace it for about $10.

The Quickrich Shredder may be ava able at some local garden supply sto or equipment dealers. For names of tail sources that might be in your ar write to Rotocrop, 604 Aero Pa Doylestown, Pa. 18901.

YOU DON'T HAVE TO SUFFER TO SAVE.



ook for built-in omfort.

More than half of ne new homes going p in Northern Cali- ornia nowadays re Energy Con- ervation Homes. esigned to keep ou cool in sum- ner, warm in win- r, without pending so much gas and elec- icity. The appli- nces run on less el. The lighting ses less electricity.

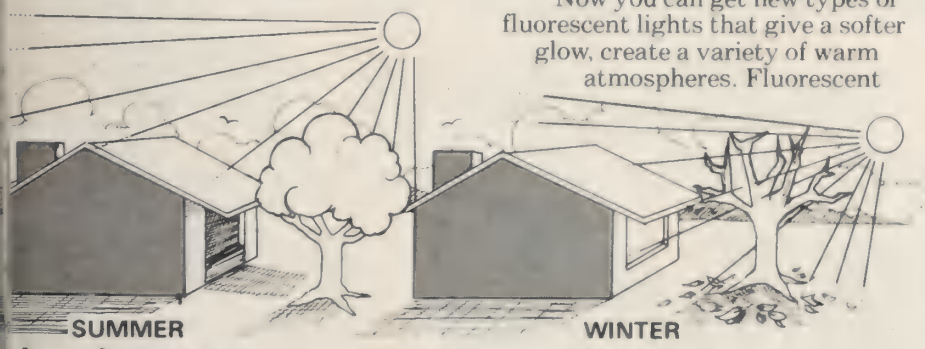
If you're house- nting, look for a ace with a sign out ont that says Energy onservation Home.

Or build in comfort yourself.

If you're not in the market for a new home now, there's a lot you can do for the home you've got. As you probably already know, good insulation is the most cost-effective way to save energy. But insulation and weatherization are just the beginning.

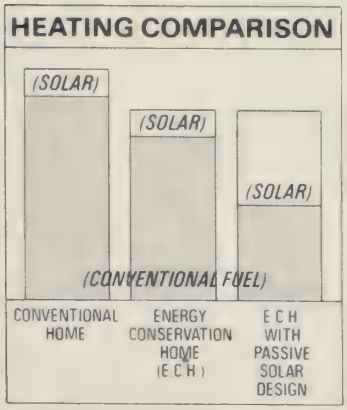
Save 2/3 of your lighting costs with fluorescent lights.

Now you can get new types of fluorescent lights that give a softer glow, create a variety of warm atmospheres. Fluorescent lights use 1/3 as much electricity as incandescent. And they last ten times as long.



ake advantage of assive solar design.

Many Energy Conservation omes put nature to work for them. ney have plenty of south- cing windows to cap- re the sun's heat. In mmer, roof over- ngs or deciduous ees shade the win- ws from the sun. The ees drop their leaves winter to make the ost of solar heating. e sun cooperates by aying higher in the y during summer and king lower in winter, beam right in when u need it.



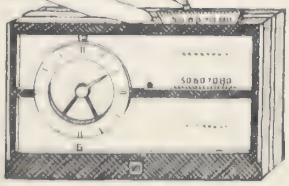
Appliances that run on less fuel.

Cooking with natural gas costs less than cooking on an electric range. Gas clothes dryers are also more energy-efficient than electric.

When you buy any appliance, it's important to consider not only the purchase price but the cost of operation. An energy-efficient appliance can save you hundreds of dollars, over the years. Ask your appliance dealers about energy efficient appliances.

Save energy with a set-back thermostat.

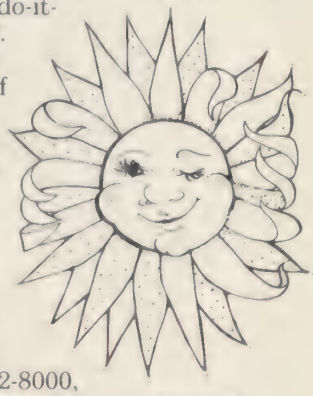
It's inexpensive and easy to install. You can control your heating and air conditioning systems to save energy.



More and more people care.

They're watching their watts. Going easy on the gas. And staying comfortable. Energy saving is going to mean even more as the years go on and energy costs go up. Chances are, improvements will add a lot to the resale value of your house.

And if you are in the market for a new home, get an Energy Conservation Home. That way, you won't have to do-it-yourself.



For names of participating builders call the PG&E Energy Conservation Center toll-free (800) 792-8000, 8 am to 6pm Monday through Thursday; 8 am to 5 pm Friday and Saturday. From area codes 805 or 714, call collect (415) 543-2073. Or write to PG&E Energy Conservation Center, 77 Beale Street, San Francisco, California 94106.

PG and E

The Findlay. It's more than a cozy wood burning friend.

It's as dependable as the Conestogo wagon of old but with new ideas. To begin with it's made of heavy steel plate welded into an efficient airtight unit. We lined the inside with fire bricks and then added Thermocord gaskets to the cast iron doors for a positive airtight seal. Then we built in a baffle system for the most efficient burning up to 12 hours. There's a practical ash catch at the front, the doors open wide enough for a 20" log and the 5/16" steel cooktop provides a surface for cooking or warming.

An excellent feature of the Conestogo is that the body of the stove is one piece wrap around body which lessens the chance of weld cracks and air leaks. The decorator, wooden handles, and the cast iron doors are outstanding. The unique Conestogo wagon design is cast in three dimensional detail and the wheels of the wagon are spin type draft controls, which provide for maximum control of the fire for all night burning. The sturdy steel decorator legs add more good looks and, when you open the doors for full enjoyment of the fire, the Conestogo is more than a cheerful wood burning friend — it's an all Canadian made Findlay.

Write to us for the nearest U.S. distributor:
Findlay Comfort Systems Ltd., 60 Otonabee Dr., Kitchener, Ontario Canada N2C 1L6
☐ Dealer ☐ Distributor ☐ Consumer

Name _____
Address _____
City _____
Province
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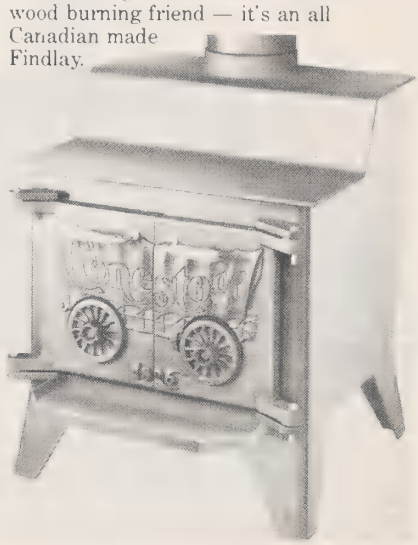
Zip Code _____

Findlay Conestogo

Findlay COMFORT SYSTEMS



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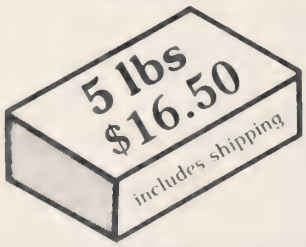
or your money back



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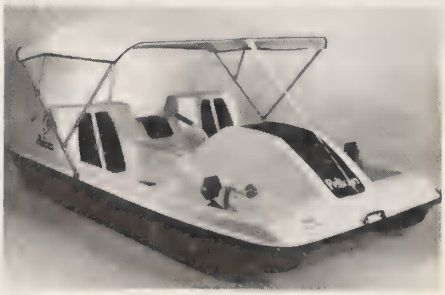
PEDAL BOATS



Untippable, unsinkable fun boat with optional sun canopy • Weighs only 110 lbs. yet will carry 800 lbs. • 7'8" long, 5'2" wide.

- Heavy duty sealed ball bearings
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- Car topable
- Bucket seats Low center of gravity
- No maintenance
- Direct drive No chain or belt

INTRODUCTORY OFFER — "Free Top", if purchased before May 31, 1980.

- Boat 799.00 • Top 99.00 • Camouflage Paint for Duck Hunters 100.00
- Allow 1 to 6 weeks delivery depending on stock
- Pedal Boat Sales, P. O. Box 1179, Morgan Hill, Calif. 95037
- (408) 778-1063 Prices FOB. Morgan Hill California (325 Tennant Ave.)

WILLIAM AP

Purple flowers *about 3 inches across bloom amid glossy 8-inch leaves*

Royal purple spring to fall

The relatively uncommon royal purp brunfelsia is worth looking for. It d serves extra attention and in return w reward you with showers of deep purp blooms in spring and fall and a smatte ing of flowers through summer, esp cially where nights drop below 60°.

This native to tropical America (*Bru felsia pauciflora* 'Macrantha') require shade, fertilizer, and iron; supply thes and it should thrive. Shady conditior keep leaf and flower colors dark an healthy looking. Lots of feeding (appl a complete fertilizer at least once month throughout the year and as ofte as twice a month in summer), is neces sary to sustain heavy flower productior To prevent chlorosis, apply iron twice year, in spring and fall.

Plant royal purple brunfelsia in a warn spot and add plenty of organic materia to the soil. If left unpruned, it shoul grow 6 to 8 feet high in four to fiv years; prune to keep it in bounds.

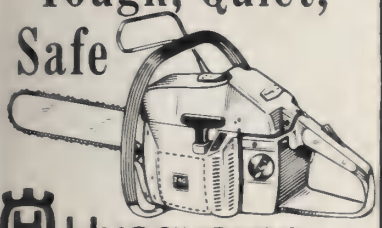
This brunfelsia also makes a handsom pot specimen, reaching 3 to 4 feet higl and across in about three years.

In spite of their delicate looks, thes plants can take temperatures down t 28°. If frosted back, they'll sprout fron the base and bloom more than before.

Unlike its close relative, yesterday-to day-and-tomorrow (*B. p.* 'Floribunda') this one does not change flower colo and it blooms much of the year rathe than at one season.

Since plants are difficult and slow t propagate from tip cuttings, they are expensive: about $9 for an 8-inch pot $21.50 for a hanging basket, and $35 for a 14-inch tub. If a nursery in your area doesn't sell these plants, your nurseryman can order them from Weidner's Begonia Gardens, Piraeus and Normandy streets, Leucadia, Calif. 92024. □

Tough, Quiet, Safe



Husqvarna 44

Every Husqvarna chain saw meets every safety requirement and more! You get smooth styling, a low center of gravity, a low, low noise level and with the **only** automatic chain brake.

Call for nearest dealer: (415) 483-4470

BEE TEE ENGINE SALES
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ECHO "FEATHER WEIGHT" BRUSH CUTTER SRM 140DB

WEIGHS ONLY 12 lbs.

Lighter than some electric trimmers!

Use as a string trimmer or convert to a brushcutter with metal blade. CHECK THE COMPETITION. The ECHO 140DB is the only string trimmer rugged enough to convert to blades!

TWO TOOLS FOR THE PRICE OF ONE

Suggested Retail

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Kit includes 8-tooth brush blade – blade guard and nylon trimmer head.

The Choice of the Professional!
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GREENHOUSE WINDOWS

Fits over or replaces ordinary window. Completely assembled, easy to install. Enjoy year 'round gardening. Bronze or write enamel finish. Available in these sizes: WIDTH-HEIGHT-DEPTH

3'x3'x16" 151.89	3'x4'x16" 177.79	4'x3'16" 181.29
4'x4'x16" 191.79	LOW, LOW SALE Prices!	6'x3'x12" 202.99
6'x4'x12" 223.99	5'x4'x16" 220.49	4'x6'x12" 227.49

Come in today or for delivery anywhere in California, add 6½% sales tax + $20.

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For the price of a postage stamp, find out what you can do about one of this country's most pressing problems. Inflation affects all of us. And if we all want to stop it, we all have to work at it. For answers on what you can do to help, send for this free booklet: "Dollars and Sense", Pueblo, Colorado 81009.

We can all beat inflation if we just use our dollars and sense.

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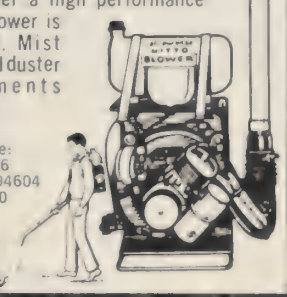

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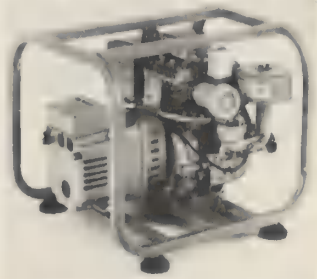

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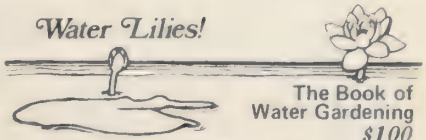

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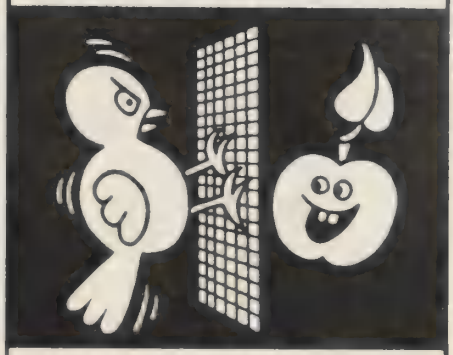

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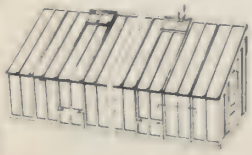

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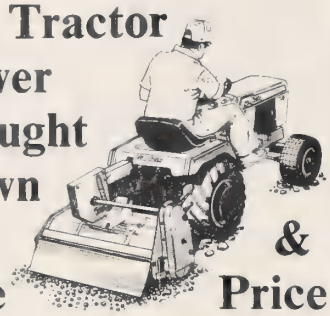

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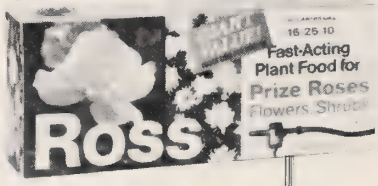

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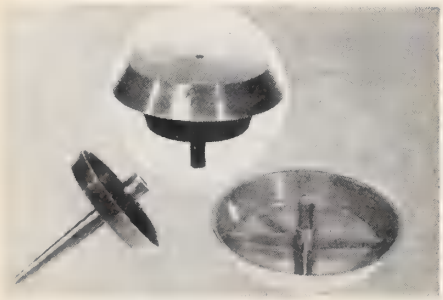

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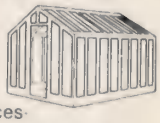

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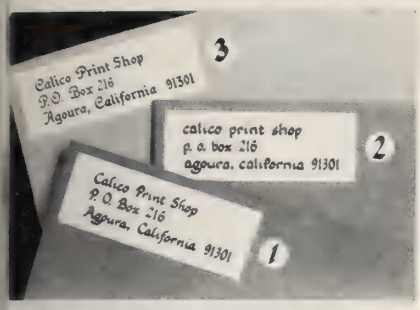

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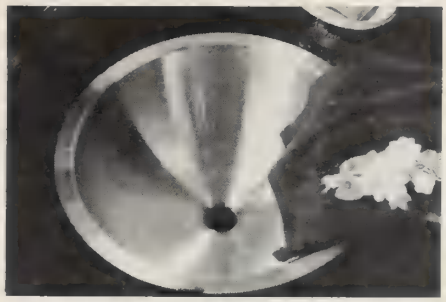

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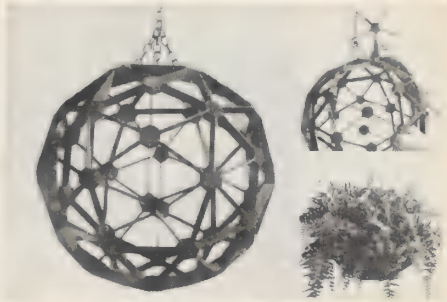

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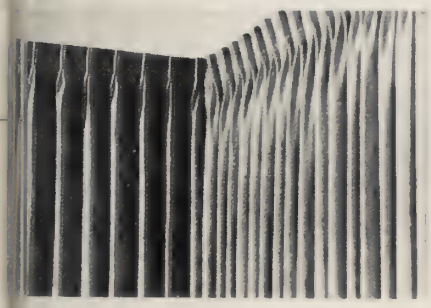

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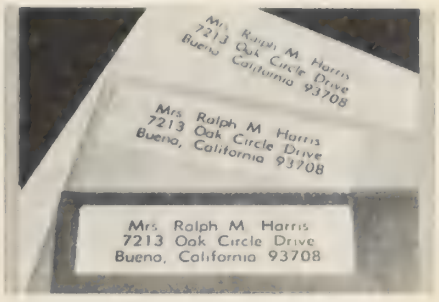

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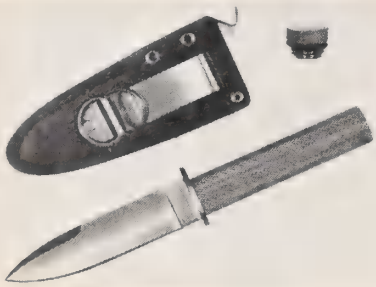

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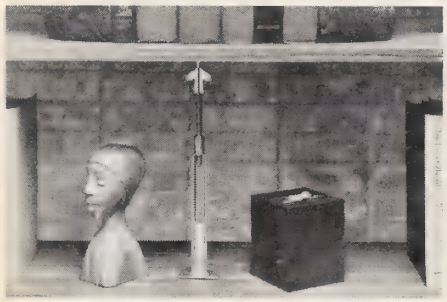

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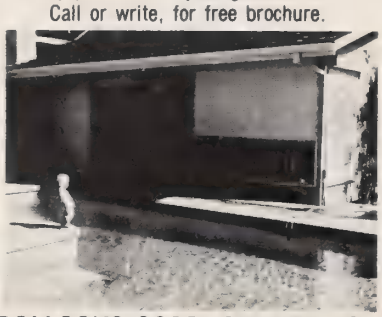

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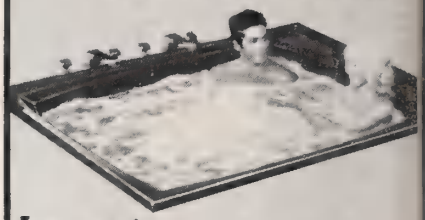

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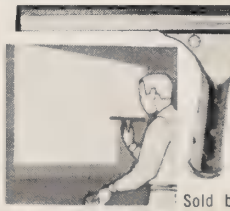

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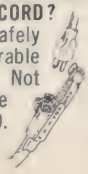

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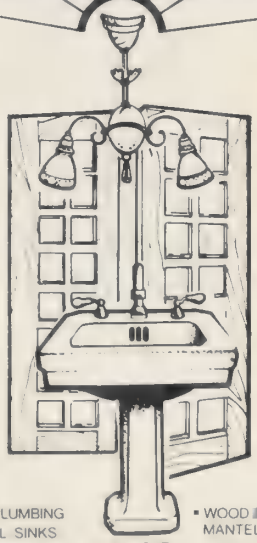

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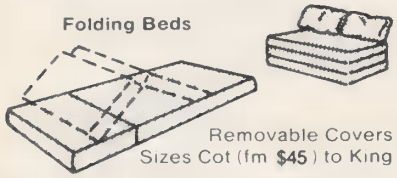

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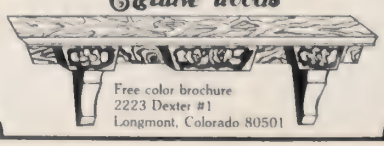

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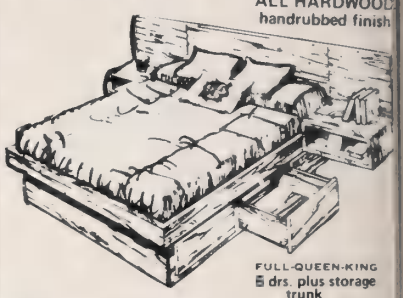

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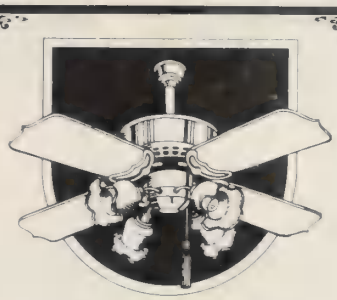

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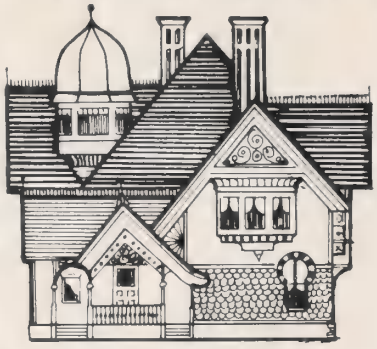

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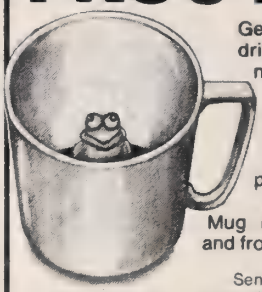

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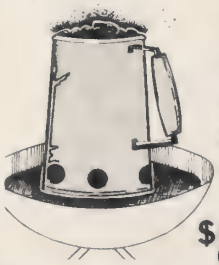

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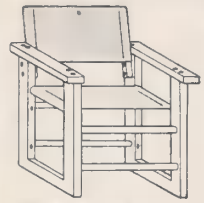

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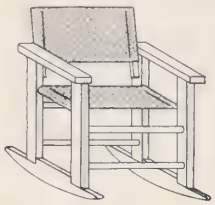

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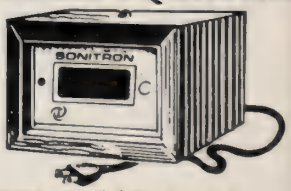

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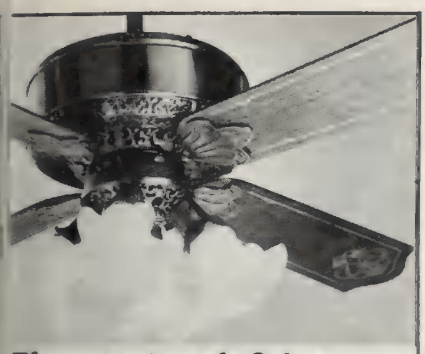

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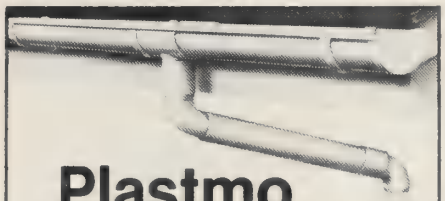

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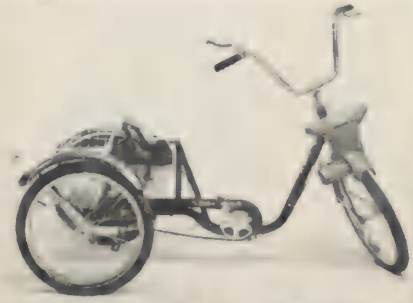

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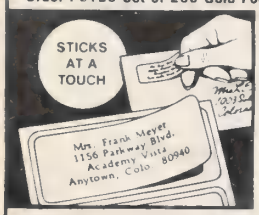

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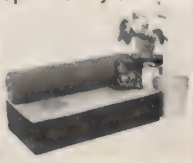

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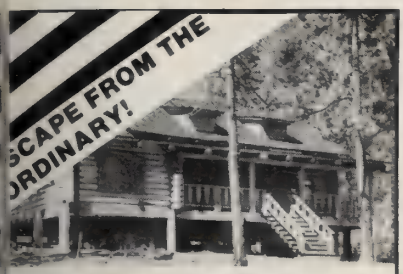

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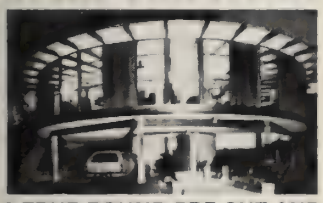

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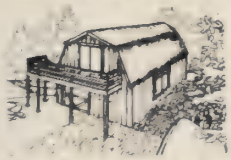

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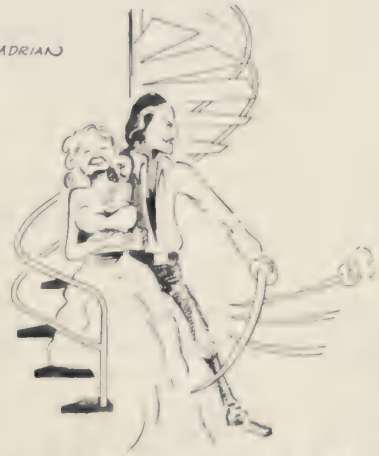

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GLENN CHRISTIANSEN

LETTER FROM *Sunset*

Which cover? And why?

This month's *Sunset* greets you first with a cover photograph of a sm but striking house remodel, highlighting a study of small remodels t begins on page 82.

Like most of our covers, this one faced stiff competition from sev other candidates, with wide-open staff review, criticism, disagreem What was the final decision based on? What gives *Sunset*'s covers a l that is different from any other magazine?

First, we want the cover to be more than just a pretty picture. It m show an idea—something readers can take action on. Ideally it sho get you to say, "Hey, that's something I'd like to do."

The cover should also demonstrate that *Sunset* is a Western magaz with specific interests in mind—travel and recreation, home build and remodeling, cooking and entertaining, gardening and landscapi In the course of a year, our covers should suggest this range of intere from remodeling (this month) to tomatoes (May) to river running (Ap to magnolias (March) to pasta (February) to skiing (January).

Our mix of covers should also reflect *Sunset*'s geographic scope. Oc sionally, that means "zoning" the cover—using a different photogr on one or two editions of the same issue to feature regional subje For instance, in January we pictured a San Gabriel Mountain ski sc on the Southern California edition, a Rocky Mountain ski scene on other three editions.

Along with varied subjects and locales, we look for different approac that make each cover stand out from its predecessors, that silently "there's a new *Sunset* in the house." These include changes in ma color (blue following red), value (dark following light), complexity wild-water rafting trip following a single magnolia), scene-setting vegetable still-life following anglers on a rocky stretch of coastline).

Another factor is "poster quality." A good cover makes a visual ment that can be understood from several feet away, whether on newsstand or a coffee table.

We use words on the front sparingly—just enough to point out three four feature articles, with page numbers to lead you quickly to ea Because most *Sunset* readers are prepaid subscribers, we want to av the clutter of "hard sell" copy aimed at newsstand browsers.

Occasionally a planned cover will be killed at the last moment, e after it's color-engraved and ready for press, because changing eve rule it out. Timeliness—as with this month's small remodel during new-housing crunch—is another cover criterion. So is reality: beca *Sunset* is a reportorial magazine, the front should show real-life peop gardens, homes, food, and travel experiences.

Producing a cover photograph is never easy. It often requires rep trips into the field or many tries in *Sunset*'s studios. (This month's co picture was taken on the second of four trips to the house.)

Sunset does its job only if it is read, then acted on. We hope our cov lead you to open up the magazine and have a look.

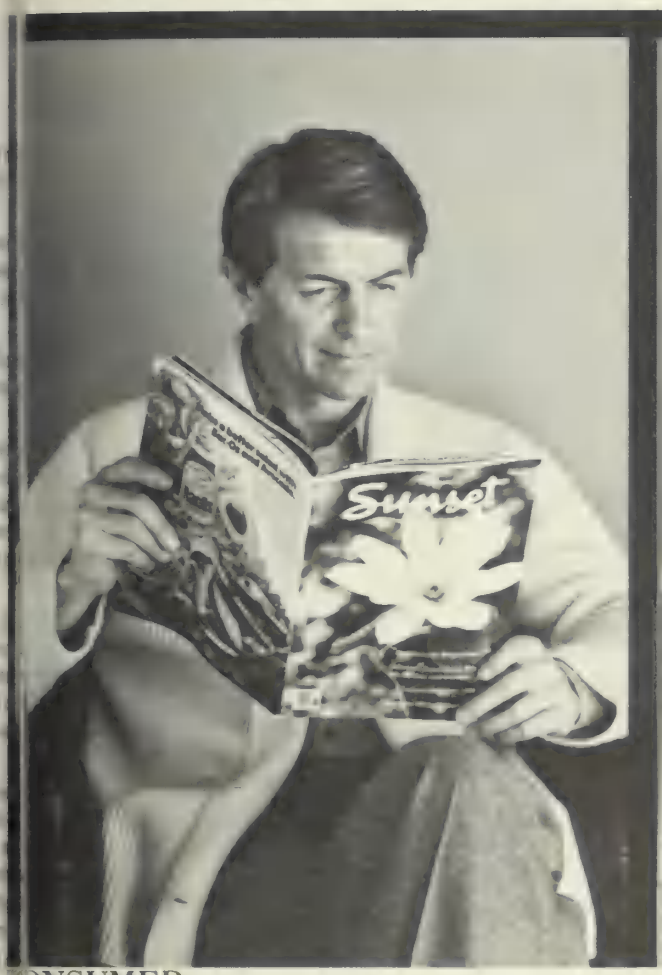
WINDOW ON THE WEST: *Cover choices*

Three photographs contended for this month's cover.

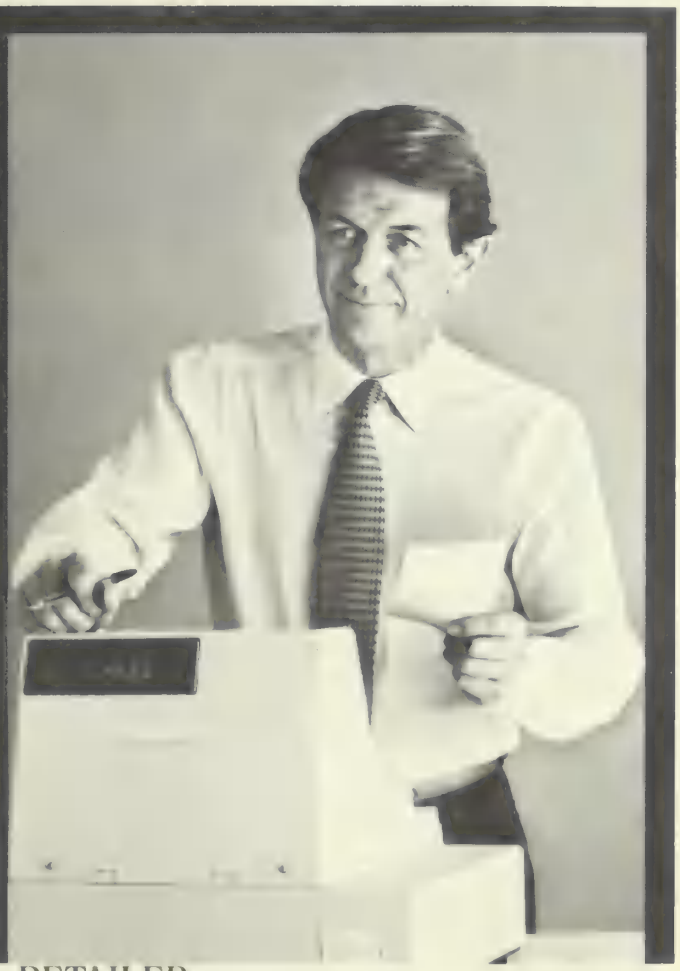
Here, a *Sunset* art director uses a clear plastic overlay to judge logotype positioning. Later will come other words on the cover, code for price scanning, and mailing label.

Final cover choice—small house remodel—has both good "poster quality" and timeliness. Bougainvillea photograph (top) appears on page 94 of our Central, Southern California, and Desert editions. Kern Plateau photograph (center) ended up on page 74 of all editions.

is how we're telling our "dual audience" story in national publications.



ONSUMER



RETAILER

Sunset gives another meaning to "Dual Audience"

Sure, Dual Audience normally means man/woman readers, and Sunset has them—a combined 5.2 million* every issue.

But Sunset also has a retailer fan club unlike that of any other magazine serving Western America. The Second Sunset Audience.

In the first place, Western retailers and their families are heavy readers of Sunset Magazine. The retailers know from everyday experience how editorial and advertising work together in Sunset to stimulate action at the consumer level.

In the second place, Sunset's popular trade publications, compiled from Sunset's unique partnership and involvement with the West, keep retailers up-to-date on regional trends, products, and promotions.

In the third place, the retail trade knows that when a supplier takes advantage of Sunset's powerful merchandising support, fast and immediate sales action follows.

Check it out. Ask the Western retailers in your line what publication has the greatest retail clout, and why.

If you heed their answers, you'll want to take advantage of Sunset's Dual Audience impact. On a regular basis.

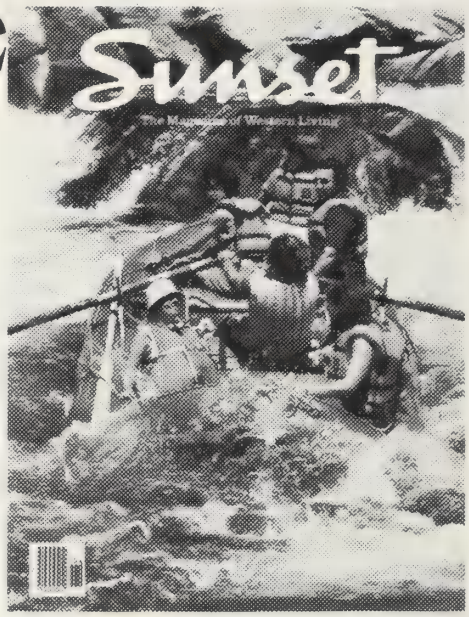
The **Dual Audience Magazine** that works for the West.

Lane Publishing Co., Menlo Park, CA 94025

MRB 1979

This is our "dual audience" reminder in regional publications.

The Dual Audience Magazine



moves **consumers** and **retailers** to market action in the West.

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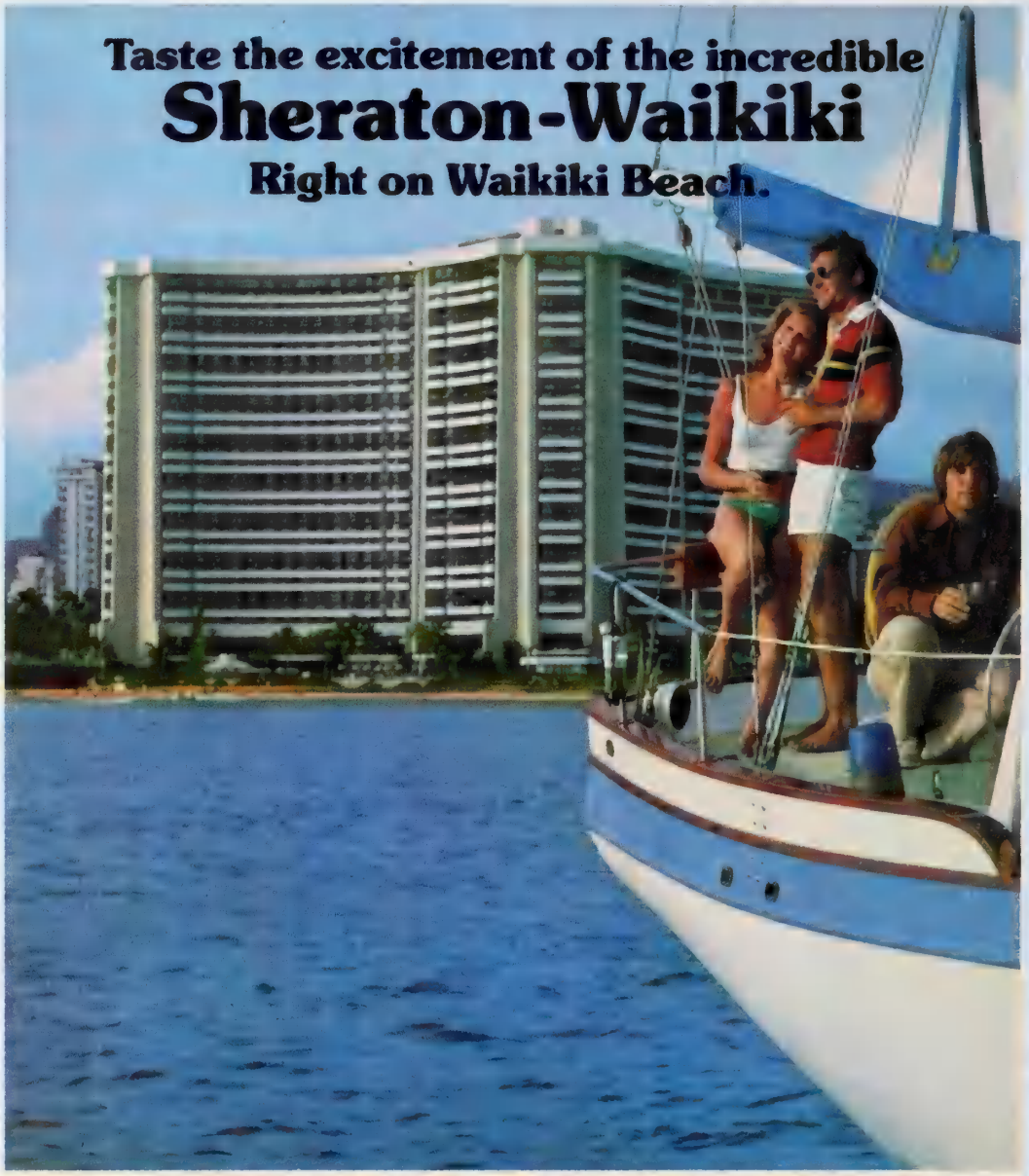

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Crisp, cool, and creamy best describe our pastry boat trimmed with bright green pea pods encircling a chicken salad. Directions for making this fanciful pastry boat plus three main dish salad combinations appear on page 78. Cover photograph by Darrow M. Watt

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July travel . . . in and beyond the West

Fresh-air music around the Bay

Temperatures as well as tempos will vary at outdoor concerts performed this month. At San Francisco's Stern Grove, tucked into a wooden ravine in the Sunset district, the maestro lifts his baton at 2 P.M., timed for the sun's best chance to break through the fog. At that same time, concertgoers in Berkeley's Greek Theatre are facing the music and the afternoon light over the Golden Gate. Start-up is after the heat of the day at Frost Amphitheater on the Stanford campus, while east of the coastal hills, music from the Concord Pavilion wafts through the cooling night air.

Each place, you can sit on a seat close to the stage or sprawl on a grassy slope farther back, relaxing with blanket and picnic. Popping corks, errant aircraft, and yoo hoos! punctuate some musical proceedings.

TOM COPI

Stately Greek Theatre *at UC Berkeley unbends with Chuck Mangione July 12*

You can buy tickets through individual box offices or at Bay Area agencies (admission is free at Stern Grove).

Here's what is planned midsummer at these four popular sites:

Stern Grove, San Francisco. You hike down a steep grade to the natural amphitheater of Stern Grove, 100 feet below street level and scene of free concerts for over 40 years.

June 29. San Francisco Symphony, conducted by David Ramadanoff, plays a Tchaikovsky program.

July 6. Merola Opera (part of the San Francisco Opera) performs Puccini's *La Rondine*.

July 13. Preservation Hall Jazz Band.

July 20. Kurt Herbert Adler conducts Merola Opera soloists.

July 27. Mitch Miller leads the San Francisco Symphony.

You can avoid parking problems near the site (at the intersection of Sloat Boulevard and 19th Avenue) by riding the Muni; simply park near 19th some distance from Stern and take #28 line (it runs every 12 minutes, fare 50 cents) to Sloat. All programs are free and start at 2 P.M. Capacity is 20,000 and more.

Greek Theatre at UC Berkeley. This 8,000-seat theater, first of its kind to be built in the United States, rests against the hills overlooking the campus.

July 12. Chuck Mangione plays pop music at 2 P.M.; $9.50 advance, $11 at door.

Frost Amphitheater, Stanford University. In a tree-circled glade looking to-

RICHARD AUDSLEY

You saw her close-up *if you got there very early. Others heard Joan Baez—from farther back—at Frost Amphitheater last year*

Perennial favorites, *the Preservation Hall Jazz Band of New Orleans will get 'em dancing at Stern Grove on July 13*

ANN FRIEDMAN

Sunset *The Magazine of Western Living* • *July 1980*

110 youngsters test swings for Sunset

Behind-the-scenes testing is one way we evaluate craft projects for publication in *Sunset*. Our "testers" tell us what they like —or don't like—about a trial idea, often suggesting a better way, and sometimes telling us flatly that there's a flaw.

The swing pictured in the article on page 80 passed no-nonsense testing by 110 very young children at the Bing Nursery School in Stanford, California. But the youngsters had problems with the proposed "bird" swing at right. "You have to hold on tight," one child told *Sunset* assistant editor Peter Whiteley. Too tight, he concluded while watching it in action —the bird flunked out of his article.

Reviews for the horse were enthusiastically favorable. But even here we met an unexpected reaction from one young tester: "It takes me up in the air and reminds me of cheese and milk." □

Shot down *by testers, "bird" swing proved too unwieldy for preschool children to ride safely*

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ward Hoover Tower, you can choose chair seating near the stage for some concerts or spread a blanket on the gently sloping greensward.

July 4. Preservation Hall Jazz Band performs at 5. Regular admission is $7, students $4, children under 6 and those over 65, free. There'll be food for sale.

July 20. Mitch Miller conducts the San Francisco Symphony with the Kingston Trio for the 21st annual Children's Health Council pops concert, at 5 P.M. Costs are $10.50 chairs, $8.50 lawn; to order tickets, call (415) 326-5530.

To get to the 8,000-seat amphitheater, take Palm Drive (the extension of University Avenue in Palo Alto) to Campus Drive; turn left and continue to Galvez Street.

Concord Pavilion, Concord. Mount Diablo forms a backdrop for this stunning covered stage, winner of a major architectural award. It's open on the sides so you can sit under the roof canopy or on the surrounding lawn.

July 5. Charles Aznavour, French vocalist; $9.50 seats, $6.50 lawn.

July 6. The Crusaders, a jazz band; $9.50 and $7.50.

July 11 and 12. Joel Grey; $12.50, $7.50.

July 17. Blues Brothers; $12.50 and $8.50.

July 19. Marshall Tucker Band; $9.50, $7.50.

July 20. Harry Chapin; $9.50 and $7.50.

July 27. Daryl Hall and John Oates, rock performers; $9.50 and $7.50.

July 30. The O'Jays, pop musicians; $10.50 and $7.50.

July 31. Sha Na Na and John Sebastian; $10.50 and $7.50.

All performances begin at 8. The pavilion is located on Kirker Pass Road 8.5 miles east of State Highway 24 via Ygnacio Valley Road; capacity is 3,000 in seats and 5,000 on the lawn.

Western art on display—in Colorado Springs, San Jose, San Francisco

Turn-of-the-century artists Frederic Remington and Charles Russell popularized Western art, a genre that is gaining increased recognition. This month you can see some of the best of it at three different shows.

The Colorado Springs Fine Arts Center offers a major retrospective of Charles Russell's works, now through August 3; most are from a newly acquired collection. The show includes about 100 oils, watercolors, and bronzes. You'll also see many of Russell's personal effects—his cowboy hat and boots, field sketches, plaster models—that have never before been on display.

The museum is at 30 W. Dale Street in Colorado Springs (70 miles south of Denver off Interstate 25); hours are 10 to 5 Tuesday through Saturday, 1:30 to 5 Sunday. Show admission is $1.50 for adults, 75 cents for children under 12.

At the San Jose Museum of Art, the Gund Collection of Western Art makes its first Bay Area appearance June 21 to

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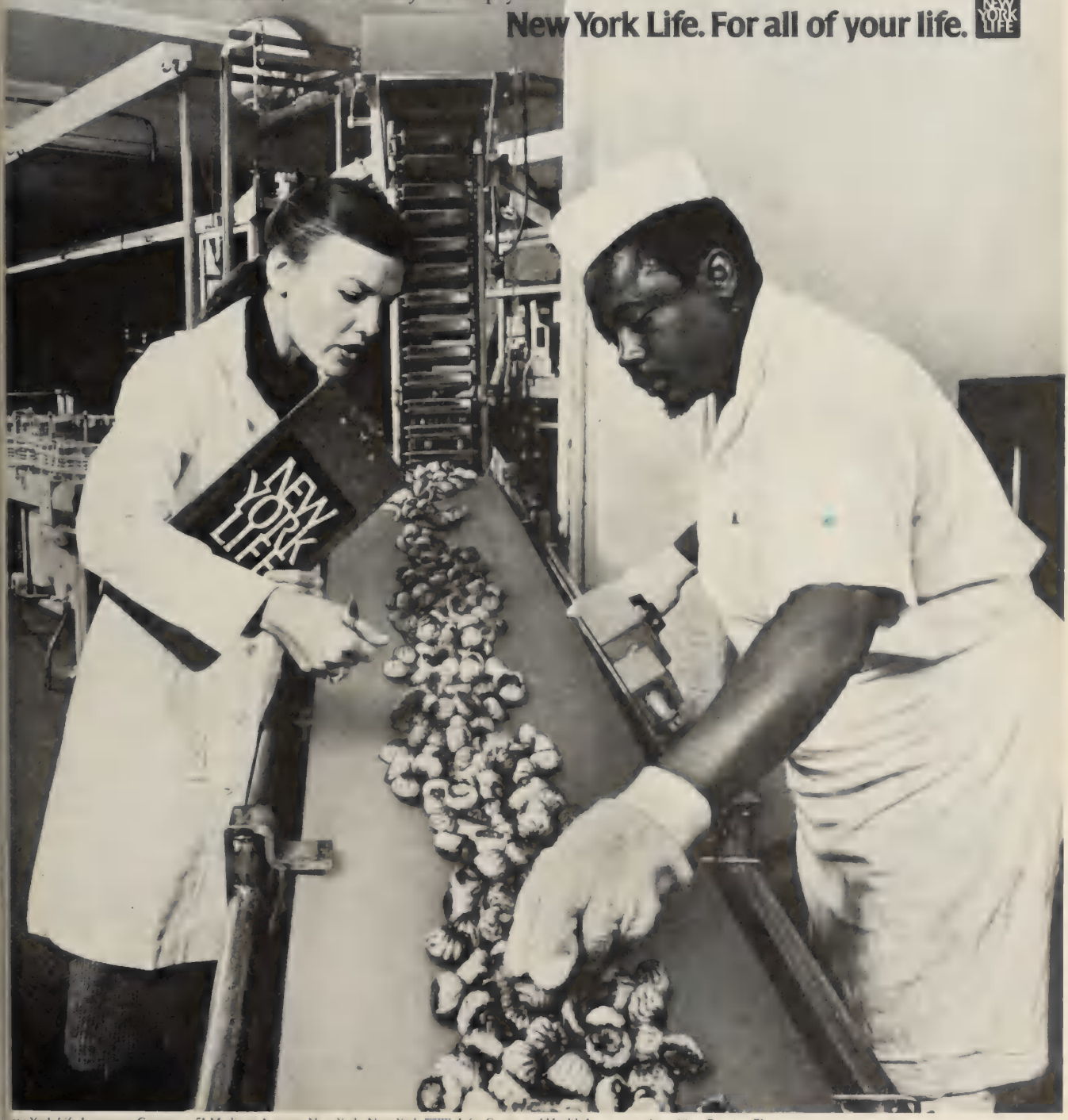

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July 20. The 60 works include prints, paintings, and sculpture by Russell, Remington, Bierstadt, and others.

The museum is at 110 S. Market Street in San Jose; hours are 10 to 4:30 Tuesday through Saturday, noon to 4 Sunday. Admission is free.

For a look at contemporary Western art, drop by the Society of Western Artists show and sale at the Hall of Flowers in Golden Gate Park. It runs July 19 to 28 and presents some 160 paintings, many for sale. Hours are 10 to 5 daily; admission is free. The Hall of Flowers is at Ninth Avenue and Lincoln Way.

Lake Merritt for bird observation and weekend walks

Since 1870, when Oakland's Lake Merritt was made the nation's first state game refuge, this 150-acre salt lake has been a protected part of the Pacific Flyway. Each year some 4,000 birds stop here during their spring and fall migrations.

The rest of the year, bird activity centers around the Rotary Natural Science Center on the lake's north shore. It offers food and nesting space for several types of birds—plus an active care center for injured birds. If you visit, you can get a close look at 30 caged birds that would be hard to approach so directly in the wild (here, they're recovering from injuries). Among them are a colorful mandarin duck, ring-necked and golden pheasants, a caracara.

Each weekend slide shows, films, and walks are offered; for a schedule, call (415) 273-3739. The center is on Bellevue Avenue near Perkins Street; hours are 10 to 5 daily, free.

Hiking the ecological "staircase" in Mendocino County

The ecology of Jughandle State Reserve on the Mendocino coast (175 miles north of San Francisco) is unique.

Stairstepping down the ocean bluffs are five wave-cut terraces, each 100,000 years older and 100 feet higher than the one below it, and each with its own distinct soil and vegetative patterns: in an afternoon's hike, you can go from a forest of tall redwoods or pines to a grove of full-grown "pygmy" cypress only a foot or two in height.

The 3½-mile-long staircase area is just 5 miles north of Mendocino and is bisected by U.S. Highway 1.

Declared a state reserve three years ago, it's open year round; free ranger-led tours are offered every Saturday at 10, returning around 3. Meet at the parking lot off Highway 1 marked Ecological Staircase; this is about 1 mile north of the town of Casper. Bring a jacket, water, and a lunch. For more information, call (707) 937-5804.

For travel planners, a July 1980 check list

Guided tours on foot. "Behind-the-scenes travel in small groups" is the philosophy behind tours featuring daily walking excursions in Japan, Europe, Mexico, New England, California. Groups travel between points by first-class public transportation or chartered minibus. Hotels and meals reflect local culture. A northern Japan tour (July 28 to August 16) costs $1,495 for land arrangements (double occupancy), a New England foliage tour (September 27 to October 12) $1,395. Write to Intimate Glimpses Tours, Box 6091, San Diego 92106; (714) 222-2224.

Book for Victorian buffs. A 128-page *Victorian Traveler's Companion* describes 700 Victorian museum-houses, inns, restaurants, and historic sites in the United States and Canada. Send $5.95 to The Victorian Society in America, Suite 305, E. Washington Square, Philadelphia, Pa. 19106.

Tall ships in Maine. From June through September, 11 windjammers—rebuilt 19th-century vessels or replicas—sail along the Maine coast between Portland and Bar Harbor, each with 20 to 38 passengers. Ships are inspected by the Coast Guard and captained by licensed sailors (usually owners); they anchor at sunset in a harbor. Passengers may help crew. No children under 16. Six-day cruises cost $275 to $325 per person, including meals. Write to Maine Windjammer Association, Box 317P, Rockport, Maine 04856; (207) 236-4867.

Stay in European homes. Families in France, Britain, and Belgium welcome paying guests, from $20 per person in a double room, $34 in a single. Breakfasts are sometimes included; dinners are available for $10 to $14. For a directory describing each farm, chateau, city dwelling, and host family, send $9.50 to Chez des Amis, 139 W. 87th St., New York 10024; (212) 767-0221.

Budget hotels in London. As part of a service called Dial Britain, six central London hotels can be booked in the United States by toll-free telephone. Cost for a single without private bath is about $26 (depending on exchange rate), including breakfast and tax. Dial Britain also books car rentals, barge cruises, country hotels, and package tours. Call (800) 424-2862 or see a travel agent. □

What a travel agent can do for you: Provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

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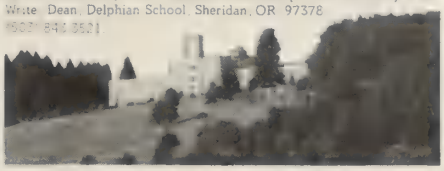

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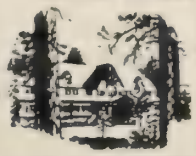

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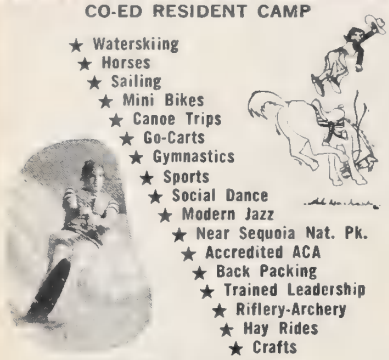

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Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

TRAVEL DIRECTORY
beginning page 9

WESTERN GROCERY DIRECTORY
beginning page 136

GARDEN CENTER
beginning page 190

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beginning page 193

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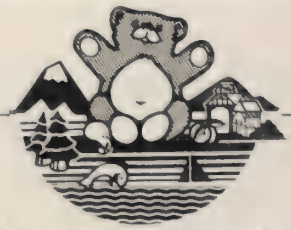

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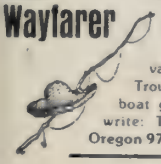

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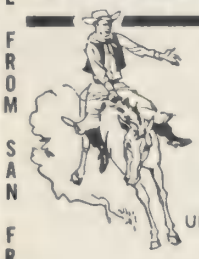

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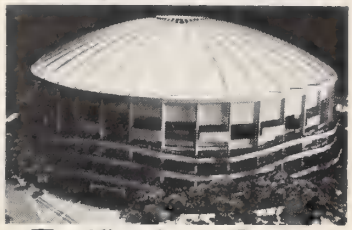

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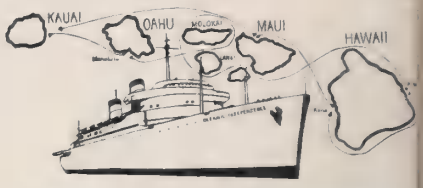

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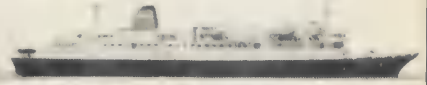

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The Sunset Travel Directory

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TRAVEL DIRECTORY IS CONTINUED ON PAGE 17

KEN NILES

Perched on the sands *of Pismo Beach, docent Heidi Doyle explains how the wind helps build and shape dunes*

Guided walks at Morro Bay parks

Park rangers at Morro Bay State Park and docents from the park's natural history museum lead at least one nature walk or hike on Saturdays and Sundays throughout the summer, as well as an occasional walk on weekdays. These guided treks may take you up a peak, down to tidepools, over dunes, up a creek, or along an estuary—all west of San Luis Obispo.

Most walks last from 1 to 1½ hours. Many stay within the state park; some start at Atascadero and Pismo state beaches, Montaña de Oro State Park, and Los Osos Oaks State Reserve.

Look for a schedule at the museum or ranger station. Museum hours are 10 to 5 daily; admission is 50 cents for ages 18 to 61, 25 cents for 6 to 17 and over 62.

On Friday and Saturday nights at 8 during the summer, there are campfire programs at Pismo, Morro Bay, and Montaña de Oro campgrounds. □

Guided walks this summer *explore the state beach and park areas shown here. All but Los Osos have campgrounds*

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	BEST MPG RATING		LONGEST RANGE	
	EPA EST.	HWY. EST.	EST. MILES	HWY. MILES
FORD COURIER	27	37	473	647
BETTER THAN TOYOTA	21	28	338	451
BETTER THAN DATSUN	25	32	423	541
BETTER THAN LUV	25	35	325	455

Use estimates for comparison. Your mileage and range may differ depending on speed, distance and weather. Actual hwy. mileage and range will probably be less than estimated. Fuel tank capacities (gal.) for LWB models. Courier 17.5, Toyota 16.1, Datsun 16.9, LUV 13.0. Calif. estimates lower.

FORD

FORD DIVISION

JERRY FREDRICK

Bells ring out *above Nob Hill from Grace Cathedral's 44-bell carillon. Live recitals are given frequently*

Where the other carillons play

The rich bell tones of true carillons are produced by a musician at a mechanical action keyboard (see *Carillon concerts are fun and free* on page 38 of the November 1979 *Sunset*). But electric and electronic carillons are also filling the air with music.

Electric carillons depend on electrical impulses to trip bell clappers; in electronic carillons, bars make bell-like tones which are amplified. Both systems are played from keyboards and can be programmed automatically.

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San Francisco. Grace Cathedral, 1051 Taylor Street. Electric; 15-minute live recitals on Wednesday and Friday at 5 P.M., Sunday at 3 P.M.

Portola Valley. Christ Episcopal Church, 815 Portola Road. Electric; 5-minute recitals daily at 8:45 A.M., noon, 5 P.M.

Mission Hills. San Fernando Mission, 15151 San Fernando Mission Boulevard. Electric; "The Angelus" at noon, "Cantico del Alba" hourly 10 to 6 daily.

Los Angeles. UCLA, 405 Hilgard Avenue, Powell Library. Electronic; on the hour from 7 A.M. to 7 P.M.; 10-minute live concert at 11:50 weekdays through the second week in July, then resuming in September.

Los Angeles. USC, University Park, Von KleinSmid Center. Electronic; on the hour, daily from 8 A.M. to midnight.

Long Beach. California State University, 1250 Bellflower Boulevard, Carlson-Bloc Tower, Humanities Building. Electronically amplified bells; 5-minute recitals daily at noon and 6 P.M. □

The Sunset Travel Directory

Western Canada

CANADA: So Much To Go For

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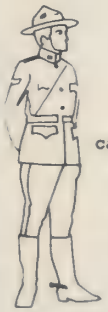

Bring your camera so you can show the folks back home the sights most travelers miss: logging camps in unspoiled areas . . . whaling relics . . . fishing villages on the Sunshine Coast . . . plus, of course, Victoria, Butchart Gardens, and Vancouver, British Columbia.

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TRAVEL DIRECTORY IS CONTINUED FROM PAGE 16

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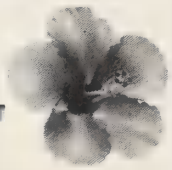

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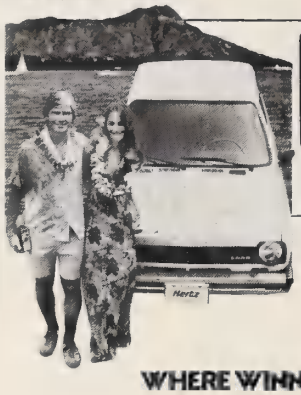

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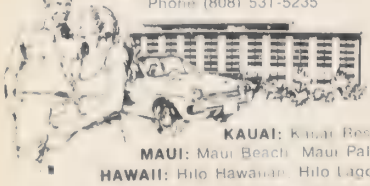

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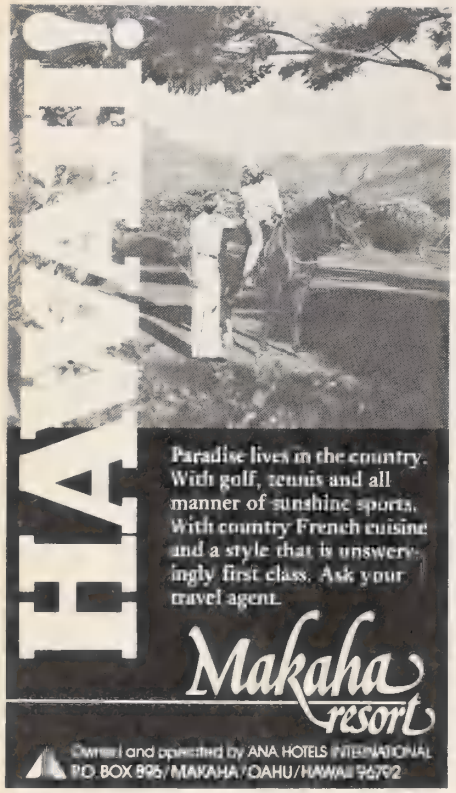

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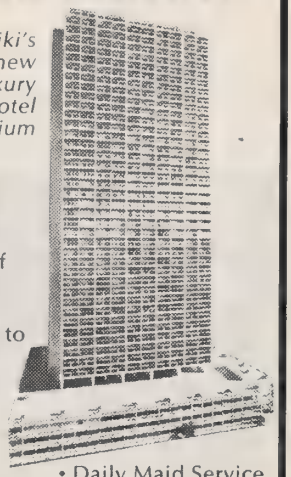

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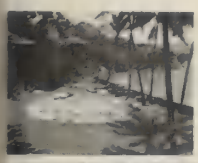

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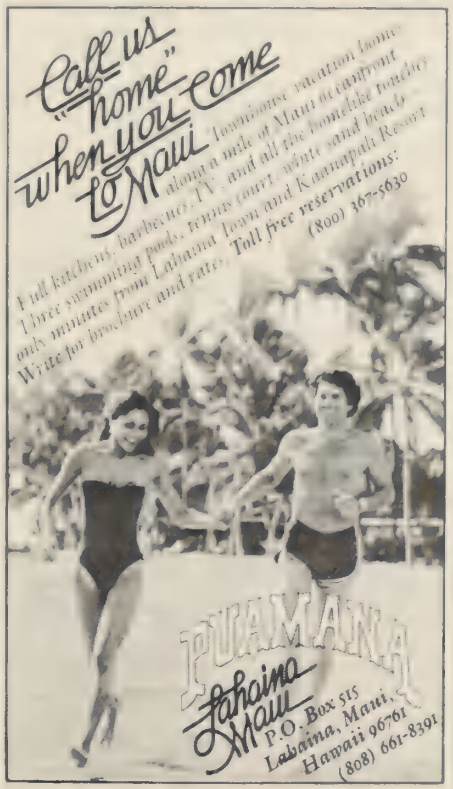

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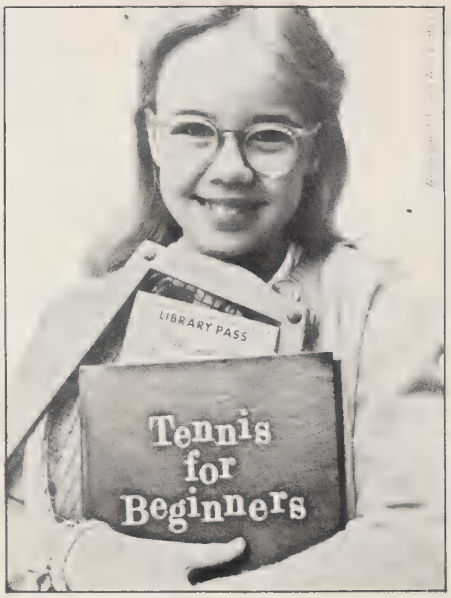

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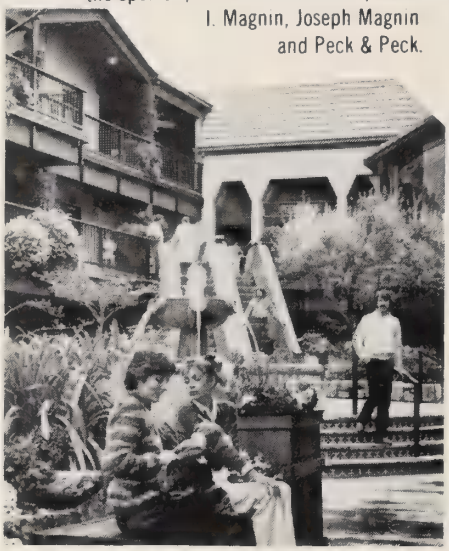

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Stay overnight in a dorm? Perhaps on a vacation trip. Or just to experience campus life

It's not fancy, *but it's not expensive. Overnight billet at San Jose State is $16.40 to $18.40 per person, including three meals*

DAVID STUBBS

Unpack a bit of the old dorm spirit this summer: you don't have to be an enrolled student to stay overnight in a collegiate residence hall. Many colleges and universities keep housing facilities open in summer for conferences and classes. And some will also accommodate other visitors as paying guests in unoccupied rooms.

It's hard to beat the prices: room and full board can come to less than $15 a day. And you may find that for a nominal fee—or none at all—you're entitled to use many campus recreational facilities, including tennis courts, running tracks, swimming pools. Families en route to other destinations can enjoy this chance to uncramp, and precollege teen-agers have an opportunity to sample on-campus life.

In general, you get no-frills quarters (shared bath, no telephone, no television, perhaps segregation by sexes) at quite modest rates. The cafeteria or dining hall can offer a real bargain: three all-you-can-eat meals a day usually cost less than $9. Travelers may appreciate another utilitarian institution in many college dorms: coin-operated laundry machines.

You'll be given your own room key by the hall manager or an aide. At most colleges, children are welcome—as long as parents accept full responsibility for their supervision. Realize that your hallmates may be there to study. Leave pets at home.

Here is a list of colleges in northern California, Utah, and Colorado that take paying guests. Be sure to check the specific requirements of the one you want to stay at, and don't expect to drop in without making arrangements (and, in some cases, partial payment) in advance.

NORTHERN CALIFORNIA

Angwin. *Pacific Union College.* Open June 24 to August 31. Fully made up rooms are $9 per night for one person, $12 for two. Vegetarian meals served on a cash basis. No smoking or drinking is permitted on campus. Write or call the Director of Guest Housing, Winning Hall, Angwin 94508; (707) 965-6311.

Arcata. *California State University—Humboldt.* Open June 21 to September 6. Single rooms are $10, doubles $14. Full board is $9.25. Write or call the Conference Coordinator, Jolly Giant Conference Center, Arcata 95521; (707) 826-3451.

Fresno. *California State University at Fresno.* Open June 1 to August 1. Single rooms are $7.50, doubles $6 per person; linens are $2 extra. Breakfast and lunch available on a cash basis. Write or call Conference Coordinator Madeline Sotelo at the university's Housing Office, Fresno 93740; (209) 487-2345.

Hayward. *California State University at Hayward.* Open June 23 to August 29. Rooms in Carlos Bee Residence Hall cost $22.50 per person (double occupancy) including full board. Write to the hall at 25400 Carlos Bee Blvd., Hayward 94542; or call (415) 582-4745.

San Jose. *San Jose State University.* Open June 1 to August 18. Single rooms cost $10, doubles $8 per person; linens are $2 extra. Full board is $8.40 per day. Write or call Conference Coordinator Jeri Allen at the university's West Hall, 375 S. Ninth St., San Jose 95112; (408) 277-2126.

Santa Cruz. *University of California at Santa Cruz.* Five guest suites, each accommodating up to three people (with private bath), are available year-round at $18 per suite. Cafeteria meals are offered on a cash basis. Write or call the university's Conference Office, Santa Cruz 95064; (408) 429-2611.

UTAH

Cedar City. *Southern Utah State College.* Open June 7 to August 31. Single rooms cost $8, doubles $6.50 per person. Full board is $8 per day. Write or call the college's Housing Office Box 588, Cedar City 84720; (801) 586-6696.

Ogden. *Weber State College.* Open June 10 to September 1. Rooms cost $4 per person, double occupancy; linens are 50 cents extra. Meals are not served on campus, but several restaurants are nearby. Children aren't accepted. Write or call the Housing Office, Box 3101, 3750 Harrison Blvd., Ogden 84408; (801) 626-6828.

Salt Lake City. *University of Utah.* Open July 1 to September 1. Single rooms cost $7.50, doubles $11 per room. Full board is $10.50 a day. Children aren't accepted. Write to Brian Schuster at the university's Housing Office, Salt Lake City 84112; or call (801) 581-5690.

COLORADO

Alamosa. *Adams State College.* Open June 15 to August 7 to groups of four or more. Rooms cost $5.25 per person. Write or call Sharon Baker at the college's Housing Office, Alamosa 81102; (303) 589-7227.

Glenwood Springs. *Colorado Mountain College.* Open June 10 to September 10. Private one-bedroom apartments cost $26 per day, $164 per week; two-bedroom units cost $36 per day, $227 per week. Maid service is included. For more details, call (303) 248-1536.

Grand Junction. *Mesa State College.* Some rooms and apartments are available May 17 to August 8. For details and rates, write or call Ray Biggs, Director of Housing, 1175 Texas Ave., Grand Junction 81501; (303) 248-1536.

Steamboat Springs. *Colorado Mountain College, Alpine Campus.* Open all year. Double-occupancy rooms cost $10 per person through October, slightly more in winter; linens are $2 extra. Breakfast and dinner are available at $7 a day. Write or call Lynn Hilton, Box 968, Steamboat Springs 80477; (303) 879-0590. □

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Flowered floats, *girls in pastel gowns drift past Mormon Temple*

Salt Lake City's "Days of '47"

In the winter of 1847, a band of Mormon emigrants—143 men, 3 women, and 2 children—journeyed across the Rockies from the Midwest in search of a new home. When, on July 21, they reached a high pass overlooking Utah's Salt Lake Valley, they knew they had found it—and within days had set plows to soil.

From dramatic origins come dramatic celebrations. Each July, Utah—most particularly Salt Lake City—honors those first settlers during "The Days of '47." Here are highlights:

Pops Concert, July 15, 8 P.M., by the Salt Lake Philharmonic at the Mormon Tabernacle. Free tickets available at Pioneer Museum, 300 N. Main Street, Salt Lake City.

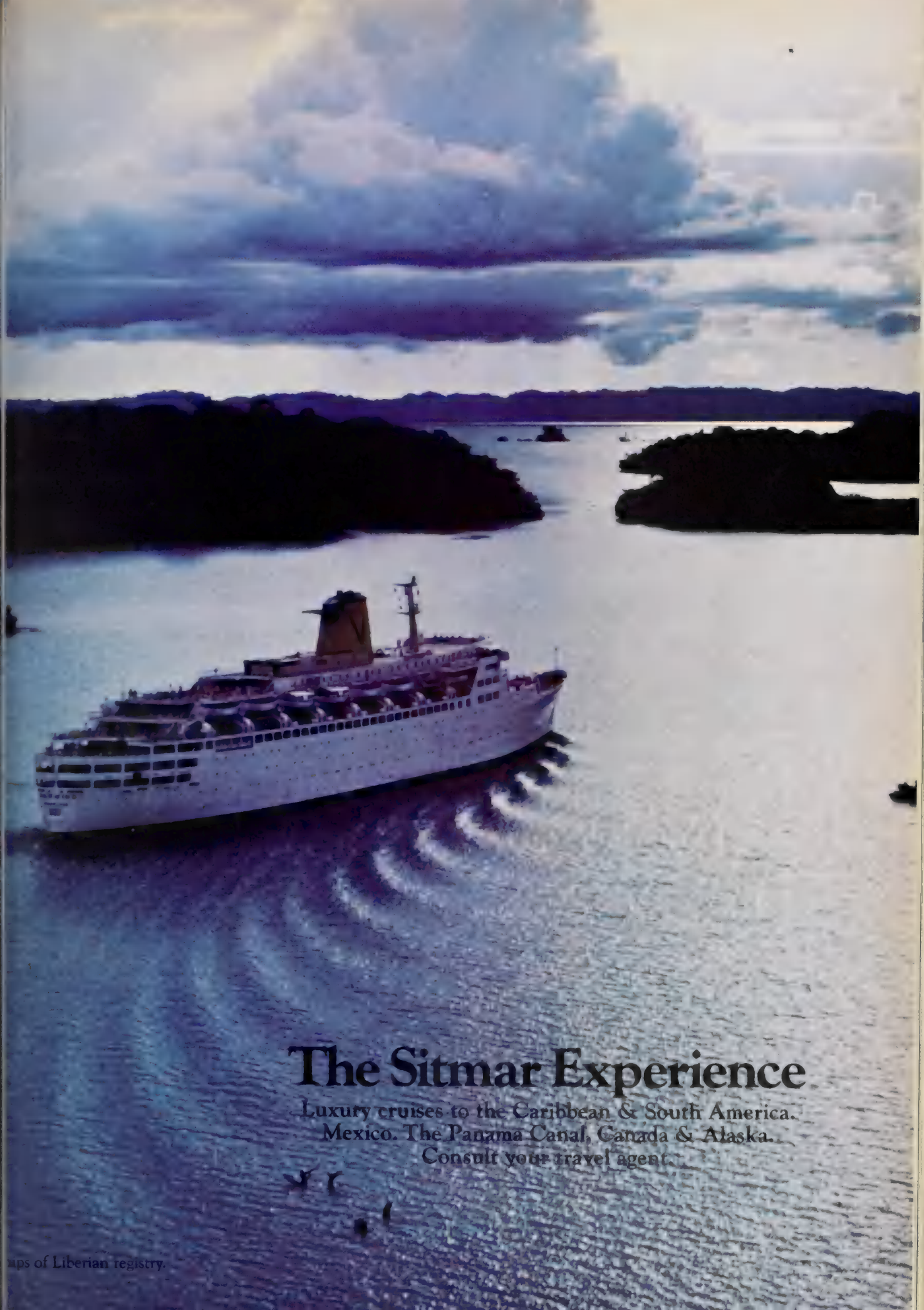
Pioneer Horse Parade, July 17. Begins at 6 P.M. at intersection of South and West Temple, runs east to Main, then south to Fourth South Street.

Days of '47 Rodeo, July 17 to 24, 7:30 nightly at the Salt Palace, plus a 2:30 matinee July 24. One of the largest rodeos in the West. Tickets ($3.50 to $7) can be bought at Salt Palace or any ZCMI store.

Deseret News Marathon, July 24. Begins at 5:30 A.M. at George Washington Memorial Grove in Parleys Canyon (take Interstate 80 east to Washington Grove exit), continues 26 miles to finish in Liberty Park. To enter, write to Marathon, Deseret News, Box 1257, Salt Lake City 84110.

Pioneer Parade, July 24. Begins at 9 A.M. at South Temple and Main and continues south on Main to Ninth South, then east to Liberty Park. A very popular show—get your square of sidewalk early.

Band concert, July 24, 4 P.M., by the Salt Lake Municipal Band at Liberty Park (between Ninth South and 13th South Street, off Seventh East Street). □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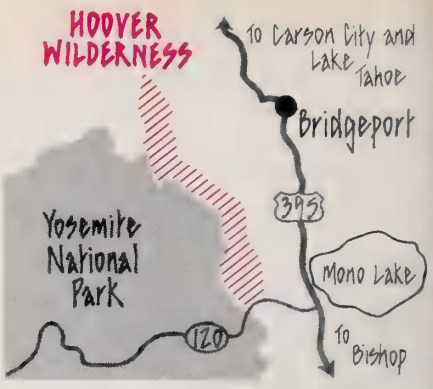
Glaciers gouged *this valley near Virginia Lakes. Altitudes in the 22-mile-long Hoover Wilderness range from 7,000 to 11,000 feet*



From U.S. 395 *and Bridgeport, forest roads (not shown) lead to trailheads*

GREGG MANCUSO

Born of snowmelt, *an icy creek races beside Hoover Wilderness hiking trail*

Near Yosemite: the lonely Hoover

Perched on the crest of the Sierra Nevada along the eastern fringe of Yosemite, the Hoover Wilderness shares much of the beauty of its famous neighbor, but few of its crowds.

One of the least-visited wilderness areas in the eastern Sierra (in terms of numbers), the 42,800-acre Hoover Wilderness has about 40 miles of trails within its boundaries. A few of the trails can become crowded, but you can quickly get into fairly remote country on day or overnight hikes. There is no maximum quota of hikers here. There are no loop trails: unless you arrange for a shuttle car, you'll have to retrace your steps. Hikers who are willing to carry in their gear will also find trout fishing in more than 50 alpine and subalpine lakes.

By now, much of the snow should be melting from the high passes, though it can last into August. You'll hike through aspen, Jeffrey pine, and juniper, and along bare granite slopes. Sturdy boots and sun protection are a must: trails are often rocky and the sunlight is intense.

Thank the glaciers for the lakes. When the glaciers crept through here long ago, they carved out an abundance of lakes and rocky valleys. Along most trails, you're never very far from a lake.

At the three most popular access points to the wilderness—Twin Lakes, Green Creek, Virginia Lakes—you'll find trailheads to the lake rich portions of Hoover Wilderness. You can fish for Eastern brook, rainbow, brown, and golden trout; licenses are required.

From the Virginia Lakes trailhead (12 miles south of Bridgeport via U.S. 395 and Forest Road 021), one good short hike takes you up 1 mile to small Frog Lakes and Cooney Lake. These jewels sparkle in wildflower-dotted valleys that may entice you to camp. Or continue on a looping 11-mile trail that traverses a windy, rock-strewn pass, then drops down to skirt the shores of more lakes. The trail ends at Green Creek roadhead. You could prearrange for a shuttle car to take you back to your starting point (17 miles away via Forest Roads 020A, 020, and 021).

At Twin Lakes (13 miles south of Bridgeport on Forest Road 018), you can purchase supplies and fishing permits before setting out on a fairly strenuous two-day hike to Crown Lake and back. The 8-mile hike to the lake starts on a level trail through aspen and cottonwood, winds along icy creeks through lodgepole pine and fir, then climbs steeply (a 2,500-foot gain) for views of Robinson, Victoria, and Hunewill peaks.

This trail crosses several small creeks. Stop and refresh yourself—the climb can be demanding and there's little shade. Several good campsites are near Crown Lake. (You must camp at least 200 feet from Barney and Summit Lakes, 100 feet from all others.)

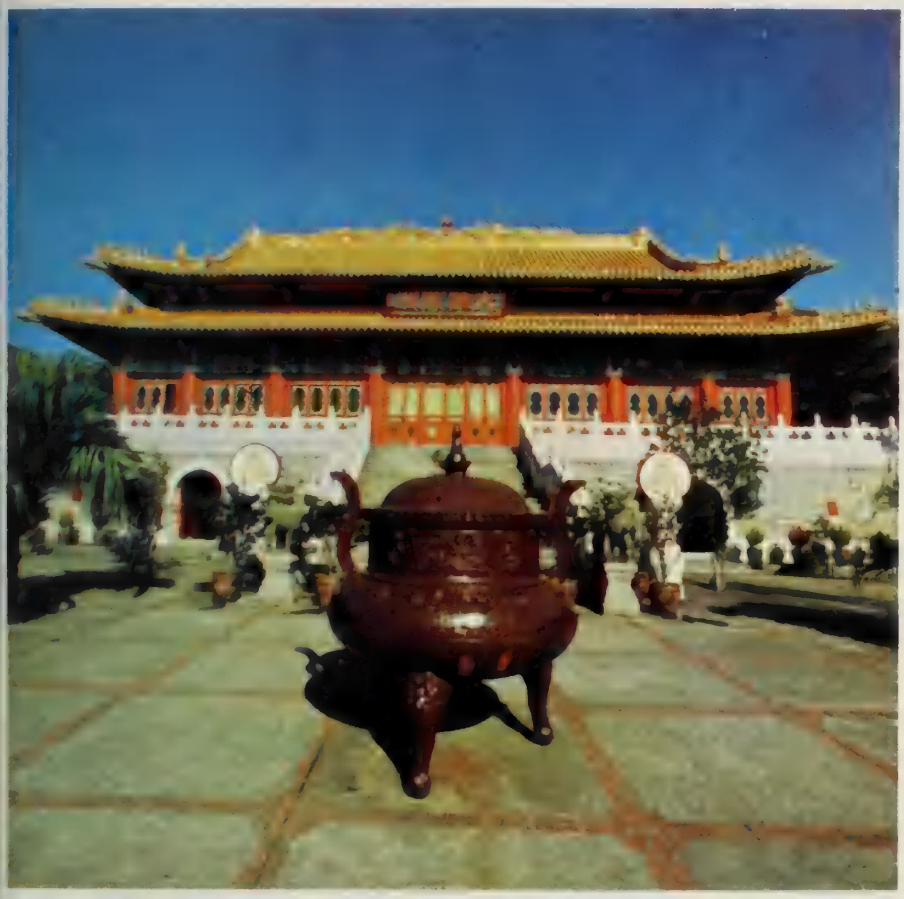
The least-used entry into the Hoover is at its north end. From the Obsidian camp (go south on Forest Road 066, 1 mile south of Sonora Junction on U.S. 395), hike 10 miles up Burt Canyon to Anna Lake. West of Anna Lake lie the headwaters of the West Walker River, in a recommended wilderness addition which would double the size of the Hoover.

"Come prepared." For day or overnight hiking, a wilderness permit is required. You can obtain one from: Inyo National Forest, Mono Lake District, Highway 120, Lee Vining, Calif. 93541; (714) 647-6525 (open 8 to 5 daily); or Toiyabe National Forest, Bridgeport District, Bridgeport, Calif. 93517; (714) 932-7070 (8 to 6 Monday, Tuesday, Friday; 8 to 4 Wednesday and Thursday, 9 to 6 weekends). Allow three weeks by mail.

It's best to call ahead to check weather and road conditions. As one ranger advises: "At these high altitudes, you can get snow or electric storms at any time of year—so come prepared." Wear or carry wool clothing and a rain poncho.

The USGS topographic map for Matterhorn Peak covers most of the Hoover. The U.S. Forest Service map of the Hoover Wilderness (50 cents) shows trails and boundaries; it's available at the Bridgeport Ranger Station. □

To see the best of Chinese culture, come to Hong Kong.



Hong Kong is the home of many beautiful Chinese temples.

And include a day trip to China.

Interest in the Chinese way of life has never been greater than now. And Hong Kong is the place to discover it all.

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Most of Hong Kong's countryside and outer islands haven't changed in a dynasty, with rice paddies, duck farms, walled villages and Buddhist temples dotting the landscape.

Visit Sung Dynasty Village for a view of China of 1,000 years ago. It's a faithful reproduction of a village of the period, where you can see traditional buildings and ancient Chinese customs.

To see the China of today, take a day tour into the People's Republic of China. No visas are needed in advance and you can go on one day's notice from Hong Kong.

And you'll be back in time to enjoy all the famous Hong Kong after dark activities. The late-night, duty-free shopping, the world's finest selection of Chinese food and night life that never seems to stop.

For further information on everything there is to enjoy in Hong Kong, please see your travel agent or write to:
Hong Kong Tourist Association,
160 Sansome Street, Suite 1102,
San Francisco, California 94104.
333N. Michigan Avenue, Chicago, Illinois 60601.
548 Fifth Avenue, New York, N.Y. 10036.

S 7 80

A day out in Shenzhen, a typical town in China, is simple and inexpensive to arrange from Hong Kong.

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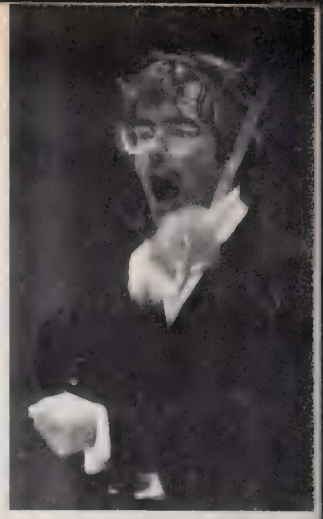
HONGKONG

You'll meet many people who maintain the traditional Chinese lifestyle in Hong Kong.

Pick up a special souvenir — at duty-free prices.

Oregon's musical summer, June 30 into deep August... seven festivals, many with picnicking



Expressive *conductor Helmuth Rilling will lead festival performances of Bach at the University of Oregon in Eugene*

From Bluegrass to Bach, Oregonians will be celebrating summer this month and next with seven music festivals—and you can join them. You could be in Jacksonville, ensconced upon a blanket spread on a hillside park at the Peter Britt Music Festival, or maybe in Eugene, enjoying a Bach flute sonata seated in the auditorium of the University of Oregon's antique Beall Hall. Music choices range as widely as the festival sites.

Five of the festivals are short detours from Interstate 5 between southern Oregon and Portland. If you're driving along the Oregon coast, the Haydn Festival at Coos Bay is en route. If you're vacationing in the Cascades, the one at Sunriver (near Bend) may be close by.

For details and advance tickets, write to the festival headquarters at the addresses listed. Since formal seating at most outdoor events is limited, you'll probably want to take along a blanket or folding chairs. You can pack a picnic—or at some of the festivals, you can buy a box supper.

Eugene. The 11th annual University of Oregon Summer Festival of Music runs from June 30 to July 13. Performances range from recitals by soloists to Bach's *St. John Passion,* which combines orchestra and chorus. Lectures and panel discussions are planned through the festival. German conductor Helmuth Rilling has been known to invite bystanders to listen in on rehearsals.

If you attend "Bach's Supper" ($5) behind Beall Hall, you'll dine on the lawn in a group of 6 to 10 along with one of the guest performers.

Complete series tickets cost $15 to $30, depending on seating. Admission to individual concerts is $4.50 to $8.50. Afternoon performances of the cantatas cost $1.50 (no reserved seating).

For details and advance tickets: Summer Festival of Music, School of Music, University of Oregon, Eugene 97403; (503) 686-3761.

Portland. Chamber Music Northwest at Reed College, under the direction of Sergiu Luca, has planned its five-week season (June 30 to August 2) to feature five major periods of musical composition: Baroque, Classical, Romantic, Impressionistic, and Contemporary. Concerts are at 8 P.M. every Monday, Thursday, and Saturday throughout the festival, except on

July 19, when "A Romantic Marathon" begins at 6:30 P.M.

Concerts are held at the Reed College Commons. Preconcert picnickers can bring their own meal or buy one outside the Commons.

Single performance tickets are $6.50 per person. A reserved seat for all 15 performances costs $93.60, general admission $84.50, students and senior citizens $66. You can also buy a series

Picnicking *is prelude to concert performed on stage of newly built Peter Britt Pavilion in Jacksonville*

MICHAEL THOMPSON

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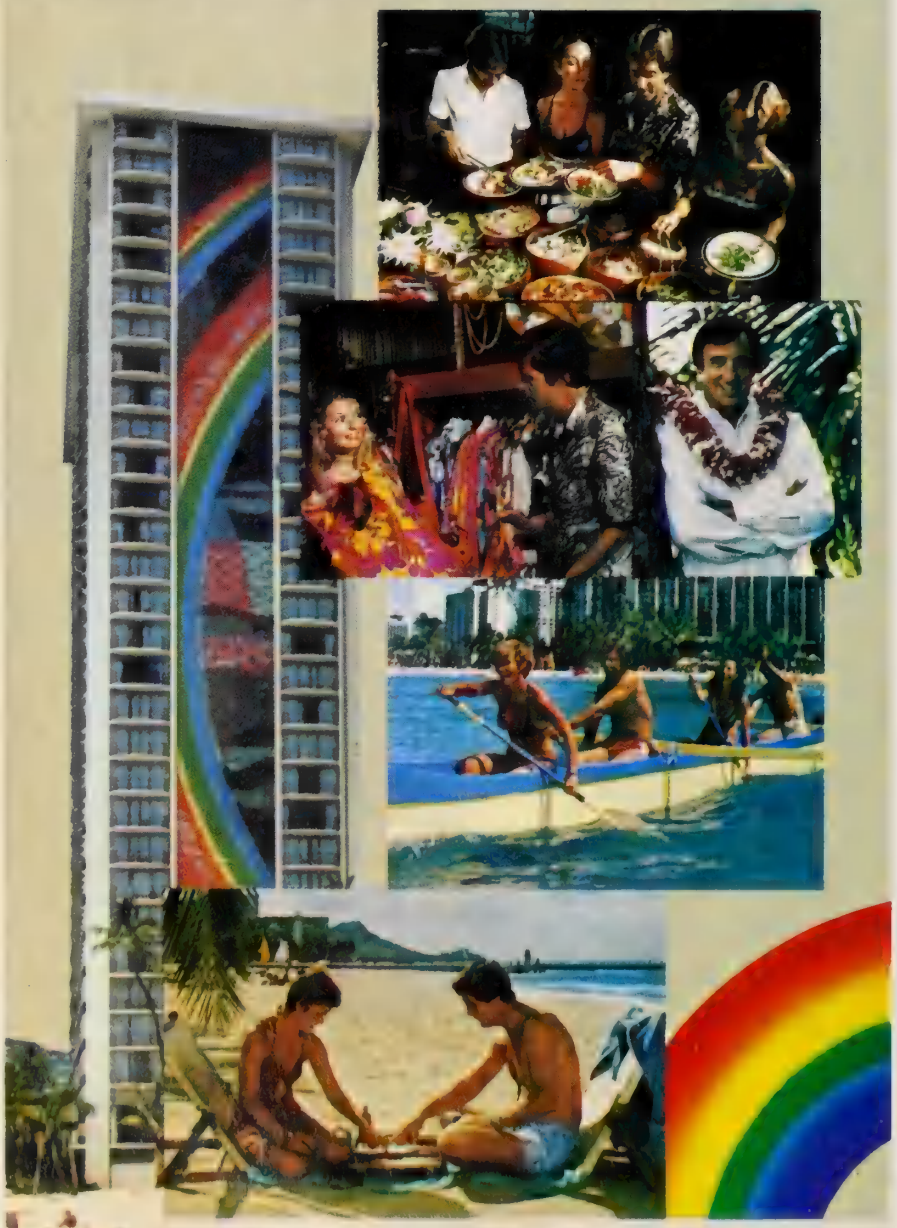

HILTON HAWAIIAN VILLAGE

Call your local Hilton Reservation Service or your Travel Agent

ticket for every concert on one night of each week or a double series ticket for each of two nights.

For information and advance tickets: Chamber Music Northwest, Box 751/DCE, Portland 97207; (503) 229-4079.

Jacksonville. Two festivals offer several kinds of music. The newly organized Peter Britt Bluegrass and Country Music Festival (July 25 and 26) features groups and solo artists. Then from August 8 to 23, the 18th annual Peter Britt Music Festival includes a diverse program of classical music, two family concerts, modern dance, and some gold rush-style entertainment.

Tickets for the Bluegrass festival are $7.50 per person for each evening performance, $12.50 for both nights.

Tickets for the major concerts of the Britt Music Festival are $5 per person, children under 12 free with accompanying adult.

For program details and advance tickets: Peter Britt Gardens Music and Arts Festival, Box 1124, Medford 97501; (503) 773-6077. Jacksonville is about 6 miles west of Interstate 5 on State Highway 238.

Mount Angel (near Salem). The popular Abbey Bach Festival at Mount Angel's Benedictine Monastery is perhaps the most difficult to get tickets for (at press time, they were going fast). The festival begins on Wednesday, July 30, and continues for three consecutive nights.

There's a different program each night, beginning at 5:20 with a vespers service sung by the monks. Between 6 and 6:30, there's a concert in the church, followed by an outdoor supper. Then at 8 P.M., a concert is given in the library of the abbey.

Tickets for the performances are $20 per evening, including supper with a bottle of wine. For ticket information: Abbey Bach Festival, St. Benedict 97373; (503) 845-3321.

Coos Bay. Highlights of the Haydn Festival (July 31 through August 3) include an August 2 concert in Marshfield High School auditorium, where you'll hear Dvorák and Haydn played by a 40-piece orchestra, and a combined orchestra and chorus performance of Haydn's *Wind Band Mass* on August 3 in Mingus Park. The festival scene shifts to Shore Acres State Park (11 miles from Coos Bay off U.S. 101 on Cape Arago Highway) for a noontime performance of Mozart's *Nocturnes* and wind music on Friday, August 1.

This festival focuses on the music of Haydn and the Classical Period of Vienna (late 18th century). Contemporary works by Milhaud and Poulenc will also be presented. Single performance tickets cost $2 to $6, series tickets are $20. For information and advance tickets: Chamber of Commerce, Box 210, Coos Bay 97420; (503) 269-0215.

Sunriver. In the pines and junipers of central Oregon, east of the Cascades, Sunriver's Great Hall will be the center of a music festival running from August 17 through 24. Concerts include performances of works by Mozart, Mendelssohn, Beethoven, and Aaron Copland.

Major performances are on August 21, 22, and 23 at 8:30 P.M. and on Sunday, August 24, at 3. On Saturday, August 23, the festival will premiere a commissioned work by composer Dan Welcher titled *Visions of Merlin*. Tickets cost $6.50 and $10 for single performances, $20 and $30 for all four concerts.

For information and tickets: Sunriver Music Festival, Box 4308, Sunriver 97701; (503) 593-1221, ext. 285. □

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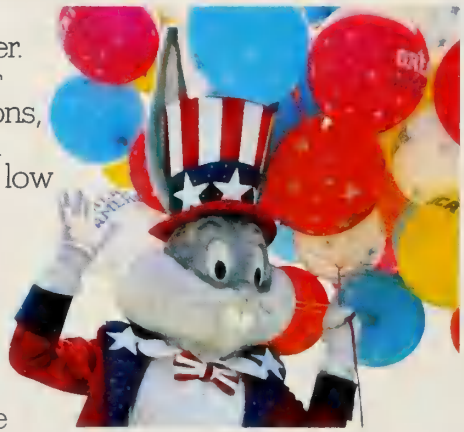

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DAVID STUBBS

Victorian greenhouse, *workplace for Burbank (right), became his widow's garden-room retreat. Now (above) it's a place where touring visitors may rest*

Burbank's two-story home *faces garden and grave*

It's Burbank's place. You're invited

ıe experimental tinkerings of horticul-rist Luther Burbank and his friends—ıong them Ford, Edison, Firestone, d Burroughs—are textbook examples turn-of-the-century American inven-eness. You can step back into their timistic if somewhat naive era on a ılk through the house and garden of e "Wizard of Santa Rosa."

ırbank didn't understand the theory of netics, but he came up with a plant onth during his career—in all, a total 800, including the Santa Rosa plum, asta daisy, and Burbank russet potato. ss well remembered: the plumcot and e Paradox walnut, which didn't grow od nuts but made a fine rootstock.

ıe house you see on the half-hour tour ıs Burbank's home from the late 1880s until 1906. After he died in 1926, his widow moved back and lived there until her own death three years ago. Furnishings, books, and autographed photographs fill the first-floor rooms. Tours run Tuesdays and Saturdays between 10 and 3:30, April through November—during the rest of the year, Saturdays only. Admission is 50 cents for adults and children 12 and over. You can walk through the gardens any day. Plans call for conversion of the carriage house to a museum.

To drive to the site, leave U.S. Highway 101 at the downtown Santa Rosa exit. Proceed east (on State 12) for several blocks; then turn right on Santa Rosa Avenue and continue 3 blocks to the intersection with Sonoma Avenue. □

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CALIFORNIA COOPERAGE

Gentle surf and Giant Dipper *roller coaster are two of the attractions drawing weekend crowds to Santa Cruz beach*

All aboard: *body surfers and belly boarders ride shorebreak near Municipal Wharf*

Santa Cruz beach…too popular

To beat traffic, go early, return early or late. This year some help is in the works. Besides the free shuttle, better parking, better bus routing

umper-to-bumper traffic, overflowing arking lots, long walks to the beach—ese, too, are souvenirs of a summer eekend trip to Santa Cruz.

ess than a tank of gasoline (round trip) om the southern San Francisco Bay rea, Santa Cruz is expecting one of its isiest seasons—but some car-unsnarlg efforts may help clear the picture.

he city of Santa Cruz and the County etropolitan Transit District are taking e first steps to help visitors avoid the orst of the in-town jams.

is summer, some relief may come om county-sponsored free beach shut-s, improved routing on regular bus utes, and possibly an experimental rking permit system. And the city is w reviewing long-range solutions.

hat keeps people coming back?

spite of the frustrations of the radiar-boiling crawl over steep State Highway 17 from the Santa Clara Valley, people keep coming back to Santa Cruz. The primary reason? The beach: a sickle-shaped swath of fine sand curving nearly a mile from the mouth of the San Lorenzo River to the rock walls that edge West Cliff Drive. The sand is washed by a gentle surf that is usually tame enough for youngsters to play in safely.

Another reason for its popularity: geography makes Santa Cruz one of the most dependable spots for clear weather along the central California coast. Cupped in the northwestern end of Monterey Bay, the beach faces almost due south at the Boardwalk and bends around past the wharf to face east from cliff-rimmed Cowell Beach. This geographic orientation and the sheltering bluffs help to cut wind and hold at bay some of the coast-hugging summer fog.

Fair weather here is no recent discovery. Santa Cruz was a popular family vacation area nearly seven decades ago, when the Casino and Boardwalk were new and visitors rode a train over from Alviso. In 1914, the present Municipal Wharf was completed. By the 1920s, the Boardwalk was taking the shape it bears today. The train is long gone, but much of the right-of-way still exists.

Avoiding the beach traffic

Most day visitors to Santa Cruz face two travel problems: the drive over the Santa Cruz Mountains on twisting State 17 (known locally as "Blood Alley" because of the high number of accidents) and the congestion of the beach area.

One way to minimize both problems is to arrive early and to return early, say around 3 P.M. Those who arrive before 10 should have little trouble parking near the beach. (One drawback to this approach: morning fog may persist until noon, so an early departure may not allow much time in the sun.)

Another hassle-relieving alternative: take the free beach shuttle from the county office complex at the corner of Ocean and Water streets (Water Street is a half-mile south of where State 17 ends to become Ocean). Started in 1977, the beach shuttle carried 40,000 riders last year. A similar program in Capitola has been equally successful. For information on both beach shuttle programs, telephone (408) 425-8600.

The Santa Cruz shuttle runs daily May 24 through September 7 between 9 A.M. and 7 P.M., with buses at 20-minute intervals. Wherever possible, bus routes avoid main thoroughfares and take you right to the beach or Boardwalk. Riders can carry on beach gear, even surfboards less than 5 feet long.

One popular stop on the shuttle route is the Pacific Garden Mall. Redesigned in 1969, five blocks of Pacific Avenue between Water and Cathcart streets are now linked by a single lane of one-way

GREGG MANCUSO

High-jumping *defender leaps to block volleyball in one of the informal games played all along the beach*

High noon crawl *on Beach Street. Though taken with a long telephoto lens, this picture accurately shows traffic and parking problems*

Beach shuttle bus *can be identified by rainbow stripe on sides. Rides are free*

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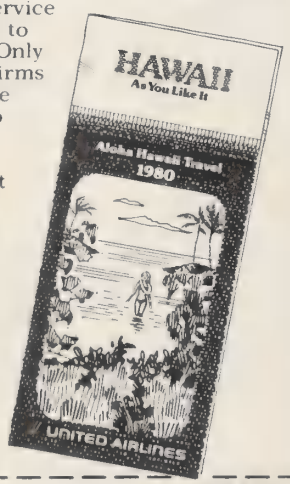

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Fishmongers serve *seafood fanciers at two stalls on Municipal Wharf. Among the fare for sale: crabs, clams, salmon, and rock cod*

traffic that winds through a broad, strikingly landscaped pedestrian mall. Service businesses complement boutiques, antique shops, galleries, and restaurants.

The mall stop is at Pacific and Soquel, site of the main transit center where—for 25 cents—you can get a bus to most parts of the county. For bus route information, call (408) 425-8600. (The shuttle system does not serve the two state beaches that lie within Santa Cruz city limits: Natural Bridges and Twin Lakes.)

Planning, programs may help solve some parking problems

Although the city of Santa Cruz has been slow to tackle beach congestion problems, a new study completed this spring by city planners may spur some action.

Transportation district planners are examining another option for this summer: nonresident parking restrictions in the Live Oak area between Schwan Lake and 41st Avenue south of Portola Drive. Under this proposal, visitors could either buy a day permit for parking on residential streets near the beach, or take a free shuttle from more distant parking lots. Funded by a federal grant, this demonstration program had yet to be approved at our press deadline. For more information, call Transportation Planning, (408) 425-2191.

Down on the Boardwalk, out on the Wharf

Two of the favorite stops on the shuttle bus route are best explored on foot. Here are some highlights.

Boardwalk. For Santa Cruz, the big summer event of 1924 was the opening of the Giant Dipper: a half-mile-long roller coaster track bounding and twisting over a graceful wooden frame. The Giant Dipper is still rated as one of the country's top roller coaster rides. Nearby, a fanciful carousel, its horses handmade by Danish woodcarver Charles Looff in 1911, continues to turn to the music of an 1894 Ruth Band Organ.

Though the Boardwalk area had become pretty seedy by the late 1960s, continuing renovations by new management over the past eight years have brought some of the polish back to the complex—one of California's first beach amusement parks. An extensive remodel and restoration of the 1907 Casino and Coconut Grove ballroom (where you can still dance to big band music once a month) is scheduled to begin this winter.

Rides are open daily from 11 A.M. to 10 P.M. through September 7 (afterward on weekends only from 11 to 5 until late next May). Parking lots ($1 per car) across the street are often full by noon on weekends. For information on special events, write to Santa Cruz Beach Boardwalk, Box 625, Santa Cruz 95061; (408) 423-5590.

Municipal Wharf. This is one of the few West Coast piers that you can drive out on, but you may prefer to stroll. Located at the west end of Beach Street, the wharf juts out a half-mile into the bay. It was originally built so trainloads of timber could be hauled out to waiting freighters, but now only a few fishing boats tie up. Here you can arrange charter fishing trips for bottom fish or salmon (about $20 per person). But on any weekend, you'll find the largest number of anglers leaning against the pier railing, plumbing the depths for perch and sand dabs. No license is required; fish in designated areas.

Should lady luck forsake your fishing party (or if you need some fish heads for crab bait), you can find a variety of fresh fish and shellfish at two wharf stalls. Or treat yourself to a seafood meal in one of 10 dockside restaurants.

For details on fishing charters, harbor cruises, skiff or tackle rentals, write to the Santa Cruz Wharf Association, Box 1336, Santa Cruz 95061; (408) 426-9699. There are usually a few parking spaces on the wharf (2-hour meter limit). □

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Skeptical?

You needn't be, you know.

All the assorted paraphernalia that you see in the picture above really did get into a 1980 Volkswagen Rabbit before it came back out again. Because although the outside is definitely all Rabbit, superbly snug-looking and stylishly compact, the inside is all Volkswagen. And you know what that means.

It means that thanks to a fold-down rear-seat, a Rabbit can be terrifically useful whenever you're thinking of transporting things.

Even surprisingly large things.

Like a steamer trunk.

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But just in case you prefer chauffeuring people to things, we've got some good news in that department, too.

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So think about packing you and yours into a 1980 Rabbit.

And remember, when you do, you won't just have a Volkswagen Rabbit.

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DON NORMARK

Barrels that spat *16-inch shells are plugged to prevent rusting*

Welcome aboard the "Mighty Mo"

Her huge guns are silent now. The battleship U.S.S. *Missouri,* veteran of naval actions from Iwo Jima to Korea, is resting in Sinclair Inlet near Bremerton, Washington. Her berth is a 45-minute ferry ride from Seattle, plus a 2½-mile bus or bike ride. You can also drive to see the "Mighty Mo." Now a national shrine, the 880-foot warship is moored within a compound that includes free parking; enter off State Highway 304 just southwest of Bremerton.

As you walk down the pier toward the *Missouri,* note her sister ship on your left: the U.S.S. *New Jersey*. Beyond float some dozen other Navy vessels, including four great aircraft carriers.

Walk the gangplank to board the *Missouri.* You'll tread atop 17 inches of solid steel sheathed by teak decks. The hull, too, is heavily shielded for protection against armor-piercing projectiles.

In the officers' wardroom, hanging battle streamers represent various naval campaigns. There's a large photograph of Margaret Truman breaking a beribboned bottle of champagne over Mighty Mo's prow at her launching in 1944.

On the quarterdeck, you'll see the spot where General Douglas MacArthur signed the surrender documents officially ending World War II.

Ferries leave Seattle for Bremerton and return at hourly intervals; bikers are welcome. If you take the bus to see the ship, watch for signs directing you to the bus depot as you leave the ferry. In summer, bus #3 leaves every hour, 7:45 to 11:45 A.M. and 1:10 to 7:10 P.M.

You can visit the *Missouri* daily from 10 A.M. to 8 P.M. from Memorial Day to Labor Day. Admission is free. □

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Clear, cool, and civilized, *San Luis Obispo Creek runs along Mission Plaza, providing rocks for hopping, pools for splashing*

The cool and civilized pleasures of San Luis Obispo

After a stay in San Luis Obispo 12 years ago, we wrote in *Sunset,* "The visitor's regret is likely to be that this otherwise charming town has not yet learned to take advantage of its finest natural amenity: the wooded creek that runs through its center."

So much for regrets. Today, when a visitor comes away from downtown San Luis Obispo, his biggest sorrow is likely to be that more cities haven't done with their streams what this city did: turn the creekside—now called Mission Plaza—into an urban oasis of the first order.

In fact, Mission Plaza's trees and pools and activities have proven enticing enough to change the city's image a bit. Lying halfway between San Francisco and Los Angeles, San Luis has traditionally been a place to fill empty stomachs and gas tanks. But—particularly this month, which starts by saluting America and ends by saluting Mozart—its downtown is drawing travelers off the frontage roads.

Best way to begin exploration is to take the Marsh Street exit off U.S. 101 and drive five or so blocks northeast. Parking on weekdays can be tight; you may have to walk a block or two to the plaza.

Star-spangled Fourth: *last year's plaza celebration attracted some aptly dressed guests*

Plaza lawns *lie within easy licking distance of restaurants, shops; to rear stands the stolid County Museum, once a Carnegie Library*

Mission Plaza . . . planned casualness

This two-block-long expanse of patios and greenery (a third block is scheduled for completion early next year) was designed by Richard B. Taylor of Santa Barbara. It charms because so little seems to have been done with it: typical coastal trees and shrubs—sycamores, oaks, and periwinkle—dot gentle slopes along the creek, and the creek itself has been left with a boulder-strewn casualness that would please Tom Sawyer.

But the casualness is planned: the boulders are cemented in place and the sidewalk railing installed in short, easily replaceable sections as precautions against flood damage. So far—even this wet winter—the landscaping has remained relatively unscathed.

Fronting the plaza on the southeast are shops and restaurants, some with creekside patios. On the northwest lie Mission San Luis Obispo and the San Luis Obispo County Historical Museum. The mission, pillared and stately, has its own small museum (donation 50 cents; open in summer 9 to 5 Tuesday through Sunday). The county museum (free; open 10 to 12 and 1 to 4 Wednesday through Sunday) contains thousands of items that early San Luis Obispo residents couldn't bring themselves to throw away.

Farther along, the San Luis Obispo Art Center displays works of local artists and others; it's open noon to 5 daily.

One block below the plaza and to be connected with it next year is the Creamery, 20-odd shops housed in what—as

KODAK

You know what my problem is? I love to dance, but I can't stand waiting in line.

America's Storyteller 1880 1980

Shouldn't you trust your story to Kodak film?

istman Kodak Company, 1980

DAVID STUBBS

Bubble-gum bas-relief: *young San Luis Obispans may not know art, but they like gum alley*

the name and still-evident refrigerator doors and cooling pipes make clear—was once the Golden State Creamery, built in 1906.

Conversations, concerts

Throughout the summer, the plaza provides a setting for relaxed, small-city entertainment. Wednesday noons bring "Conversations," an informal oral history program that invites interesting San Luis Obispans to talk about their city and their lives. At 12:30 on the second and fourth Thursday of each month, you can hear free concerts by various solo performers. At 7:30 P.M. on the third Thursday of each month, the San Luis Obispo County Band celebrates its hundredth year with evening concerts preceded (at 6:30) by potluck dinners open to anyone who is willing to contribute comestibles.

On July 4 from 11 to 5, San Luis Obispo throws an Independence Day party peculiarly American in its ethnic variety: Middle Eastern dancers wriggle within earshot of Highlands bagpipers, and the smell of Polish sausage competes for your attention with tostadas and strawberry shortcake. July 5 and 6 from 11 to 5, see an arts and crafts fair with booths selling items of various pedigrees.

At the end of the month comes a somewhat more elegant celebration as the San Luis Obispo Mozart Festival moves into its 10th year. Many of the concerts take place at the university, but the Mission Plaza will hold free wind quartet concerts at noon on July 28, as part of the opening ceremonies, and on July 31. And on Friday, August 1, and Saturday, August 2, the mission itself will hear Mozart's *Concerto in C Major for Oboe* and his *Mass in C Minor.*

The simple beamed chapel is an appropriate setting for Mozart, and a popular one: tickets should be bought immediately. For ticket information, write to Mozart Festival, Box 311, San Luis Obispo 93406, or call (805) 543-4580. For information on other plaza activities, write to Mission Plaza Events Coordinator, 1530 Broad St., San Luis Obispo 93401, or call (805) 544-9733.

Touring the town

Though it is tempting to laze away most of a day on the plaza, the rest of downtown San Luis Obispo contains enough to fill an afternoon. One place to start a tour is the Chamber of Commerce, 1039 Chorro Street (Tuesday through Friday 8 to 5, Saturday through Monday 9 to 5).

There you can pick up, for $1, a visitor's guide that includes a key to the Path of History. With the help of a green line painted on the street, the key will lead you on a 1½-hour walk or 20-minute drive. Among other things, you'll pass a fine iron-fronted store, The Sinsheimer Building, and the shake-roofed Dallidet Adobe, open in summer from 1 to 4:30 Sundays.

Another unusually good reference, available at the Chamber of Commerce or local bookstores, is *An Uncommon Guide to San Luis Obispo County,* by Georgia Lee, Vicki León, and Lachlan MacDonald (Padre Productions, San Luis Obispo, Calif., 1977; $5.25).

Not on the tour but worth a visit is the Jack House at 536 Marsh Street. Built in the late 1870s and now being restored, the house is not yet open. But the garden is, and it is lush and impressive: the Jacks had a penchant for exotic plants, and their velvet lawn is shaded by ginkgo, mandarin, and pomelo trees.

Finally, there is another place that—though also neglected by the path of history—has earned nationwide notoriety. For over 15 years, certain citizens of San Luis Obispo have been smearing a brick-walled downtown alley with gum. Lots of gum: simple blobs of gum, names written in gum, suns and moons and rainbows painted with gum.

People under 12 are usually entranced by Gum Alley (or The Gum Wall, depending on whom you talk to); those over 12 usually pretend, without success, that it doesn't exist. It does; it runs from the 700 block of Higuera Street to a city parking lot. Visit at your own risk, and if you are taking children, pray that the idea doesn't catch on at home. □

Marble-painted altar *of mission serves as backdrop for Mozart each summer*

BILL ROSS

Mission garden *has paths to wander, flowers to smell, and wells to wish into*

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Hyatt on Union Square is the ultimate in European elegance.
Experience gracious European-style hospitality in America's most beautiful city. Enjoy the elegant privacy of the Regency Club with Concierge Service. Walk to theatre, shopping, Chinatown and cable cars.

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Hyatt is in the heart of everything exciting.
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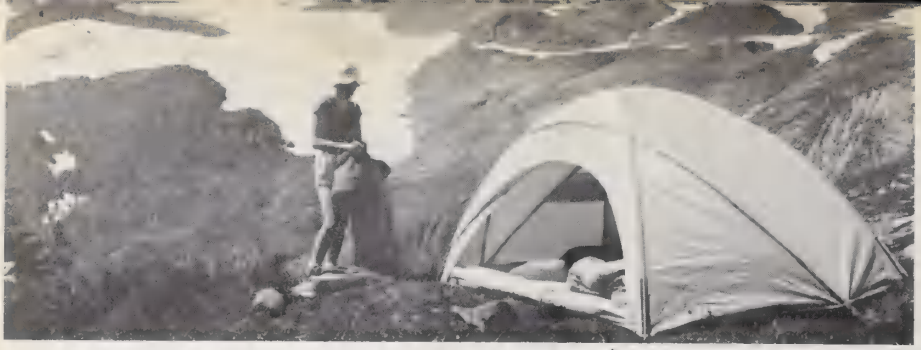
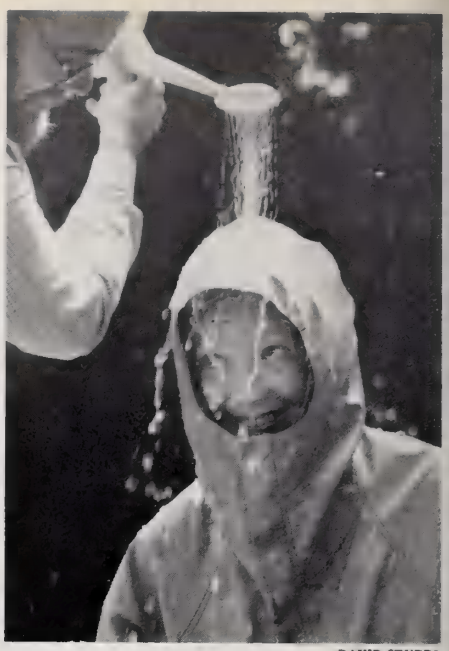


No rain fly needed *on this three-person tent, so it's easier to set up, weighs only 6 pounds*

The outdoor fabrics that keep out water, let vapor through



DAVID STUBBS

Wispy membrane *is laminated between conventional fabrics (left). Just for fun, they test new rainwear shell with zippered helmet*

It seems magical: water vapor (like perspiration) goes right through it, while water in liquid form (like rain) won't penetrate. But as you can see below, that's just how Gore-Tex fabric works.

That makes truly "breathable" rainwear possible for the first time—rainwear that doesn't make you feel as if you're wearing a plastic bag, but is still waterproof.

Since its introduction four years ago, products made with this thin patented material sandwiched between layers of conventional fabrics have been fast-selling items in outdoor shops. In a variety of equipment and under a host of labels, Gore-Tex is revolutionizing not only the way people stay dry as they hike and climb mountains in the wilderness, but also as they camp, bicycle, jog, ski, sail, fish, and kayak.

But the "magic" isn't cheap. Expect to pay at least 25 percent more for garments incorporating this petroleum-derived product. Is it worth the premium?

To find out, *Sunset* reporters have been using a variety of Gore-Tex products for over a year. We've also queried most of the manufacturers in the field. There is news, not only in the greater variety of products, but in how some early problems have been largely resolved.

And last winter a new product, Klimate (see page 48), was introduced, designed to perform almost identically to Gore-Tex. Others may follow.

How thin is thin?

Gore-Tex is a close relative of Teflon stretched into a super-thin membrane. By itself quite fragile, this microporous material is only .001-inch thick, weighs a mere ½ ounce to the square yard, and boasts a whopping 9 billion pores to the square inch. These tiny openings "breathe" water vapor.

To provide strength and durability equal to conventional outdoor gear, the membrane is laminated into a "sandwich" between two layers of nylon or other fabric—usually a tough outer layer and a softer material inside. Laminates in clothing add stiffness, so they rustle, which can be annoying to wildlife watchers who want to keep quiet in the field. But some new designs are trimming one of the layers, or leaving the inner layer hanging free. Washing also seems to help reduce noisiness.

Good-by to condensation (or most of it)

Conventional rainwear keeps you dry from the outside, but because these garments' waterproof coating tends to trap and condense your perspiration, you and your clothes can get soaked from the inside. That's uncomfortable, even dangerous, in adverse weather conditions that could chill your body quickly when you stop exercising. This can lead to hypothermia, a sudden and sometimes fatal loss of body heat.

You stay drier—but not completely free from moisture—in Gore-Tex garments. They work best in conjunction with underwear (like polypropylene) that quickly "wicks" body vapors away from your skin. But no matter how breathable a garment, it cannot stop you from perspiring. Look for generous vents, particularly in the underarm area or, for cyclists, the back.

Consider any garment's overall design for its use. Do you need big cargo pockets? Is there a way (like slit pockets) to get to your inner-garment pockets without unzipping?

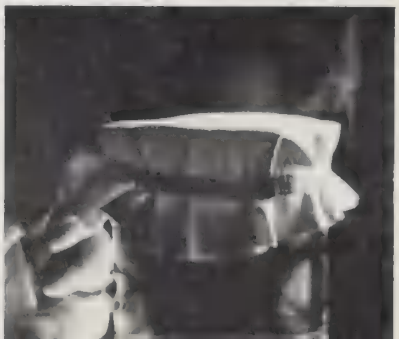
More than just raingear

Besides a wide range of rainsuits ($130 to over $200), there are now Gore-Tex backpacking tents ($280), sleeping bags ($210); cross-country-ski bib-knickers and jackets ($80 each), bicycling chaps ($50), and canoeing anoraks ($90); jogging suits ($90); and a miscellany of hats ($8), overmitts ($20), and gaiters ($30). All prices are approximate.

Last season Gore-Tex running shoes ($45) made their debut. Now you'll see the material in hiking boots pounds lighter than leather boots ($70 to $85), and next winter used in unconventional

Hot water in a mug *shows how it works: vapor (left) can get through Gore-Tex, but liquid won't leak out of upside-down mug*

KEITH GUNNAR



MEETING THE DEMANDS OF SOCIETY IS NO EXCUSE FOR BUILDING A BORING CAR.

If one accepts the dismal prophecies emanating from the automotive community, it appears we are destined to suffer a generation of thoroughly boring automobiles.

Cars so utterly debilitated by societal necessities, safety regulations and anti-pollution paraphernalia that they no longer will be the least bit interesting to drive.

All this pessimistic doomsaying, however, neglects to take into account the obsessive determination of the engineers at BMW in Munich, Germany to build extraordinary automobiles.

Against all odds, the BMW 528i not only satisfies the laws of the land and the demands of the gas tank, it does so without ever once violating our conviction that extraordinary performance is the one rational justification for owning an expensive car.

FEW CARS PERFORMED THIS WELL BEFORE POLLUTION CONTROLS.

"Expensive sedans," writes Car and Driver magazine, "tend to ride like pillows when you cruise them and squeal like pigs when you push them."

A bit caustic perhaps. But, an analysis that makes the performance statistics of the BMW 528i seem all the more remarkable.

Round a particularly hair-raising curve and the legendary BMW suspension system—independent on all four wheels—flexes with a resiliency that makes one feel as if the car were built into the roadway.

Press the accelerator and the 528i's fuel-injected, 2.8-liter, overhead cam engine responds in a manner that can only be described as exhilarating—even by pre-pollution control standards.

Yet, the BMW 528i (with 5-speed standard transmission) delivers 18 EPA estimated mpg, 30 estimated highway mileage and, based on these figures, an mpg range of 295 miles and a highway range of 492 miles.

(Naturally, our fuel efficiency figures are for comparison purposes only. Your actual mileage and range may vary, depending on speed, weather and trip length. Your actual highway mileage and highway range will most likely be lower.)

LUXURY NEEDN'T BE MERELY A FACADE.

One's taste for luxury would have to be insatiable indeed to imagine an appointment or convenience lacking in the 528i.

AM/FM stereo cassette, full-power accessories, air conditioning, and the like, are all standard equipment.

Yet each and every facet has been strategically engineered to help eliminate the enormous strains of driving.

Its seats are anatomically shaped buckets. Its front seats are so thoroughly adjustable that it is all but impossible not to find a comfortable driving position.

All in all, in a time of lowered automotive expectations, amidst increasing mediocrity, the engineers at BMW have actually improved the BMW 528i.

If you find the notion of owning such a car more than a little intriguing, we suggest you phone your nearest BMW dealer and he will arrange a thorough test drive for you.

THE ULTIMATE DRIVING MACHINE.

BMW MUNICH GERMANY

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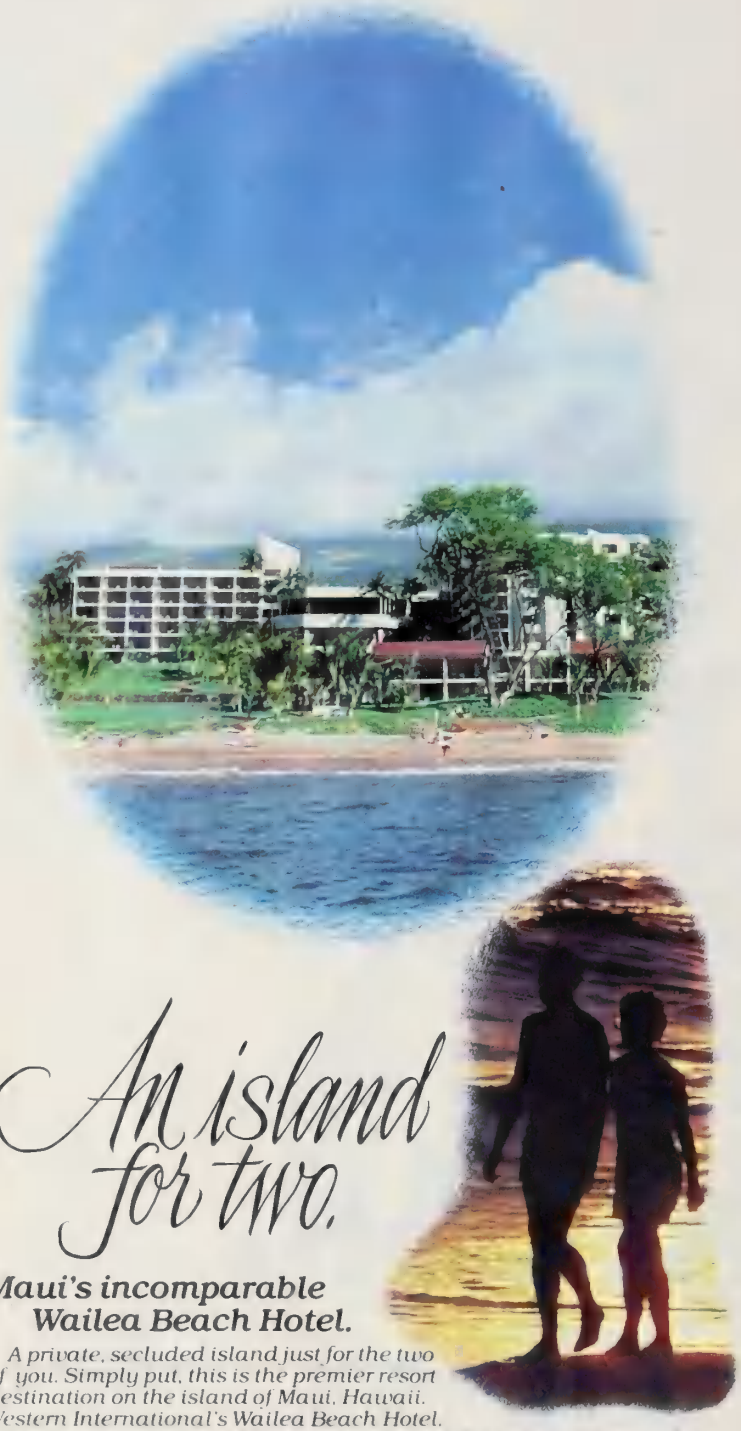
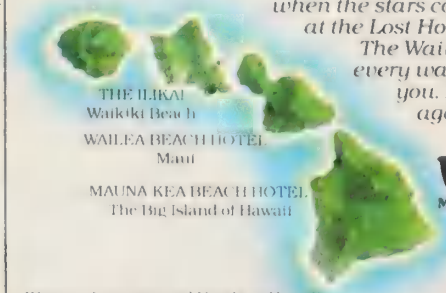


Maui's incomparable Wailea Beach Hotel.

A private, secluded island just for the two of you. Simply put, this is the premier resort destination on the island of Maui, Hawaii. Western International's Wailea Beach Hotel.

Discover your own secluded crescent sand beach only footsteps from your private lanai. Or play doubles on one of our 11 Laykold tennis courts. Swing through 36 holes of championship golf on Maui's finest. And sail, swim, shop and dine to your heart's content. Then when the stars come out, dance to the latest sounds at the Lost Horizon Discotheque.

The Wailea Beach Hotel is unsurpassed in every way. It was created just for the two of you. For reservations, see your travel agent or call 800-228-3000.



Wailea Beach Hotel
MAUI, HAWAII WESTERN INTERNATIONAL

Western International Hotels in Hawaii

cross-country ski boots.

How about tents? Smaller one-person shelters called bivvy-sacks are made by several firms, but very few manufacturers are now selling full-size Gore-Tex tents. That may be because condensation seems to increase with tent size. Expect a little condensation even in the best tents. Look for large vents that help carry away vapor before it can condense. Our reporter used a three-person tent on several occasions in all kinds of mountain weather and found it waterproof with a minimum of condensation.

Seam sealing—a messy chore, but now it may be done at the factory

The tiny needle holes created when any material is sewn will leak water if not sealed. So a glue-like seam seal, an applicator, and instructions are included with most Gore-Tex garments and gear.

Seam sealing is a tedious chore and involves contact with toxic fumes. Pick a well-ventilated spot, do just a section at a time, and keep a rag handy for spills. Some manufacturers are factory sealing garments with new machines and processes, and more are likely to do so in the future. When shopping, ask if seams have been presealed. Note that some manufacturers have eliminated or reduced seams in the all-important head and shoulder areas of garments.

Keeping garments clean—not as critical as before

That Gore-Tex can now be made into shoes and boots to pound oil-stained city streets and muddy trails is a triumph. Consider: "first-generation" versions of the material temporarily lost their waterproofness when contaminated by body or cooking oils, suntan cream, and surfactants commonly found in laundry detergents.

But "second-generation" material has been modified to better deal with contamination problems. Frequently used garments may still need to be washed periodically.

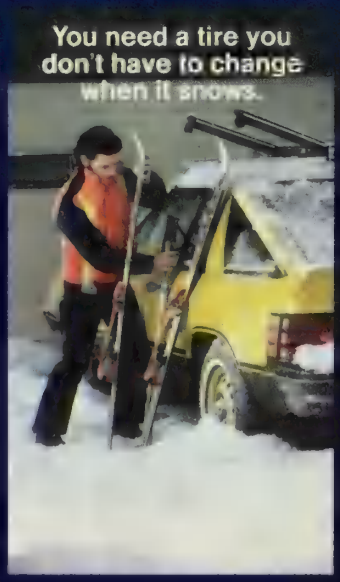
Follow manufacturers' instructions. For heavily soiled garments you might spot-clean with an aerosol-spray prewash, then machine wash (gentle cycle) in a mild detergent, rinse thoroughly, and hang to drip dry. Be wary of dry cleaning: it might delaminate the fabric.

More products coming?

Does Gore-Tex have any imitators? Yes. Klimate, mentioned on page 46, is also a thin microporous membrane fashioned from a Teflon-like chemical. You may see it for sale in outdoor shops this year primarily as rain-shell garments. Producers state that it is quieter and softer to the touch than Gore-Tex because of advanced laminating processes. Otherwise, apparently, there are no major differences. □

Goodyear Technology brings you a new steel-belted radial for the 80's.

ARRIVA



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Arriva is being made in a wide range of imported and domestic sizes, for front- and rear-wheel drive.

And Arriva is available right now—to give you a great start on the 80's.

Even its footprint tells you it's different.

GOODYEAR

Out front. Pulling away.

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A Country Path in May

Plates shown smaller than life size. Actual diameter 9 inch

IN FINE ENGLISH PORCELAIN...

The Country Year

BY PETER BARRETT

A collection of twelve beautiful porcelain plates, each portraying the charm and color of the countryside in a different month of the year.

Each plate bears an original work of art and is individually decorated with pure 24 karat gold.

To be issued in limited edition.

Offered by direct subscription only, with a further limit of just one collection per applicant.

Subscription application valid only until August 31, 1980.

he beauty of a mountain stream in autumn, or country meadow dappled with summer sun, ossesses an enchantment that is universal. And is the rare ability to capture this unique form of sual poetry — the beauty of the ever-changing untryside — that has established the English inter Peter Barrett as one of today's most fted landscape artists.

And now, for the first time in his career, Peter arrett has undertaken the task of creating a llection of important new works for issue as a rm particularly prized by collectors: a series of elve beautiful *porcelain plates* portraying the tire panorama of the countryside.

Each of these original works has been comissioned by Franklin Porcelain and created *clusively* for 'The Country Year' porcelain plate llection. After it is completed, none of these ates will ever be issued again.

Each plate captures a different setting, a different month of the year

encompass all the splendors of the counside in its changing moods, each plate will pict a totally different setting . . . in a difent month of the year.

The April plate, for example, conveys the eliness of Spring from the perspective of a luded bluebell bower . . . The spirit of May

Wheatfields in August

The Colors of Autumn in October

invites us to follow a quiet country lane . . . August brings us to a golden wheatfield, where swallows swoop low in search of food . . .

No detail, no matter how small, escapes Peter Barrett's eye. Yet, over and above their sheer beauty, these new works accomplish something even *more* extraordinary. Because each plate actually seems to draw the viewer *into* the scene.

Challenging to create . . . satisfying to own

By letting elements of his art burst out of the center of the plate and flow to its very rim, Peter Barrett has given these works a unique sense of depth and dimension . . . a feeling of movement and vitality that brings *life* to every scene.

Furthermore, because of the precision of Barrett's art, and the fact that he has used some twenty-five separate colors in every work, this is a collection as challenging to create as it is satisfying to own. Indeed, more than two years has been devoted to its preparation.

To provide full scope for Peter Barrett's artistry and vision, each plate will measure a full nine inches in diameter. The entire collection will be crafted of fine English porcelain, whose traditional richness and vibrancy are exceptionally well suited to dramatizing the subtle colors of his art. And each scene will be framed within a decorative circular border of *pure 24 karat gold.*

A collection to enhance any room . . . any home

Each of the twelve beautiful plates in the collection is a superlative work of art in itself. Together they constitute a gallery of fine art that is breathtaking. Displayed upon the wall or shelves of any room, these beautiful plates cannot help but enhance the decor of your home.

But the plates are being made available on a very limited basis. They will be crafted *exclusively for individual subscribers.* And a further limit of just one collection per subscriber will be enforced without exception.

Here in the United States, the collection will be issued in a single edition, available *by direct subscription only* — and only from Franklin Porcelain. One plate will be issued every other month, and the issue price is just $55 for each plate and individual wall hanger.

Because of the international interest in Peter Barrett's art, a second edition will be made available overseas, with equally stringent limitations. In the tradition of the finest porcelain, the collection will be available only until the end of 1980, at which time the subscription rolls will be permanently closed. To enter *your* subscription, you need send no money now. But the application below must be mailed by August 31, 1980.

SUBSCRIPTION APPLICATION

The Country Year

Valid only until August 31, 1980.
Further limit: One collection per applicant.

Franklin Porcelain
Franklin Center, Pennsylvania 19091

Please enter my subscription for Peter Barrett's 'The Country Year' — consisting of twelve plates to be crafted for me in fine English porcelain.

I need send no money now. The plates are to be sent to me at the rate of one every other month beginning in October 1980. I will be billed for plate in two equal monthly installments of $27.50*, with the first payment due in advance of shipment.

**Plus my state sales tax*

Signature _____
ALL APPLICATIONS ARE SUBJECT TO ACCEPTANCE

Mr / Mrs / Ms. _____
PLEASE PRINT CLEARLY

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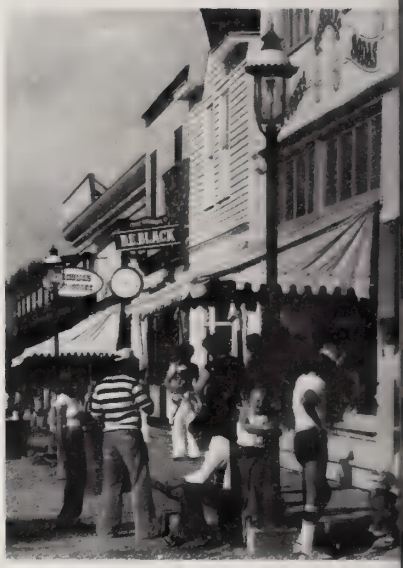
Canadian residents please write for further information.

Hear that lonesome whistle blow: *steam locomotive chugs past Bruderheim Windmill, built by a Russian immigrant in 1910*

Western Canada's past comes on scene in Calgary's Heritage Park



Ice cream parlor, *other shops, came to park from all over Western Canada*

Alberta is young, even for the West. In 1882—when San Francisco boasted mansions and a mint, and Seattle had street lights and a university—surveyor Archibald McVittie was building the first house in Calgary.

Despite its youth, the province values its history. Today Calgary is pushing outward as fast as a prairie fire, but among the cranes and road construction her citizens have managed to save a considerable amount of Western Canada's past in a place called Heritage Park—and have saved it with panache enough to impress even those jaded tourists who yawn upon seeing words like "heritage" or "pioneer" or "olde."

Inside the park gates, spread across a grassy peninsula abutting Glenmore Reservoir, are over 100 buildings—most original, some reconstructed—that represent select bits of Canadian history. The earliest era portrayed is the mid-18th century, when Blackfoot Indian tepees were the sole structures breaking the line of the plains; the latest era shown is the boom decade of the 1910s, when rigs like the Dingman Discovery Well struck oil in enough quantities to push Alberta into the 20th century.

Most of the buildings, though, date from 1870 to 1910. Even those decades saw great change. Sod houses burrowed into the prairies gave way to more substantial farms, sheds to broad-shouldered

"We found a cove with nobody else around. Just a magnificent beach and us."

Lucien and Janet Burnet talk about the Burnets' fourth visit to Bermuda.

"The players tried so hard to explain cricket to us. Everybody here is so good-natured."

"After all day on the beach, it's fun dressing up. It's part of Bermuda."

"Every time we come back, we love it more."

See your travel agent or write Bermuda, Dept 547, 630 Fifth Ave., New York, N.Y. 10020 or Suite 1010, 166 School St., Boston, Mass. 02108 or 300 North State St., Chicago, Ill. 60610

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See how easy it is to transform a bathroom into a place of beauty—and magic. Send for a free, lavishly illustrated catalogue. Every page will prove . . . anything else is something less. Call Toll Free

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Best of all, our people enjoy helping you enjoy everything we have to offer. For reservations and information on Hawaii's most complete resort see your travel agent or **call toll-free: 800-367-5360**.

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Plains Indian *pole tepee (less common than buffalo hide tepee) is open for a look*

grain elevators, log shanties to Victorians draped with chintz and damask. All are here.

In fact, so much is here that it may be the odd details that stick in your mind: the bottle upon bottle of mysterious elixirs (what on earth could palmetto compound be used for?), a windmill whose gears were hewn from scrub birch and toughened by six months' burial in manure.

But the park isn't just a museum. There is usually enough bustle to satisfy anyone. Wagon buffs can circle the park behind teams of horses; railroad buffs can circle it behind a steam locomotive; people who just enjoy circling without getting anywhere can stay aboard the Bowness Carousel. And when motion wearies, there is always food—meals at the Wainwright Hotel, ice cream at the Vulcan Ice Cream Parlor, bread from the Alberta Bakery.

Still, one of the nicest things about Heritage Park is that enough open space remains that you can get away from the bustle. You can even sit on a grassy knoll and admire the house Archibald McVittie built 100 years ago, and look north over its rooftop to admire the city that rises today.

Heritage Park lies about 5 miles southwest of downtown Calgary. To reach it by car, take the Macleod Trail and turn west on Heritage Drive, which leads to the park entrance.

To go by bus from downtown, catch the #103 southbound in front of Calgary Tower on Centre Street S. and Ninth Avenue S.W.; this bus runs every 15 minutes and costs 50 cents. At Heritage Station, transfer (for an additional 10 cents) to a DART minibus, which runs every 22 minutes and will take you to the park. For more transit information, call (403) 276-7801.

Hours are 10 to 6 daily now through Labor Day, 10 to 6 weekends only from Labor Day to Canadian Thanksgiving (October 13 this year). Admission is $2 adults, $1 children 3 to 15. □

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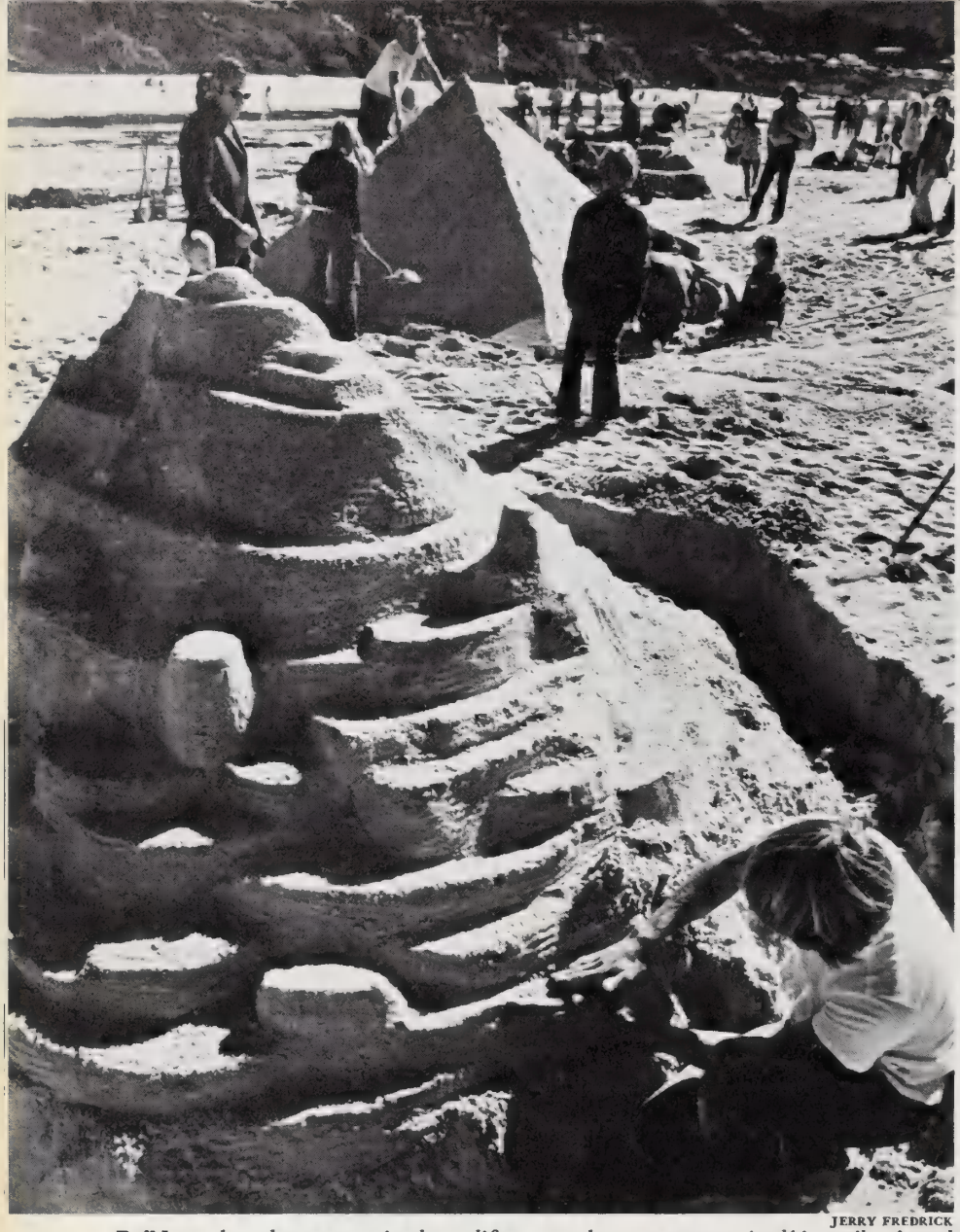

JERRY FREDRICK

Build up, *then shape some timeless edifice—or whatever suggests itself in a pile of sand*

To the ramparts! (Of sand.) Castling competitions in the West

Even those who build on rock understand the pleasures of building in sand. Sift it, soak it, squeeze it, smooth it: your freest imaginings quickly take form. And there's something delightful about a construction that resolves itself, with a turn of the tide, into its original elements.

Sandcastling and sculpting are so popular that several West Coast beaches hold annual competitions. But this year some new contests are planned and some old ones have been dropped. We list those that were definite at press time.

You can come just for the spectacle. Or you can get right into it: use your hands, sea water, some simple molds such as flowerpots or milk cartons, and a few tools (perhaps a shovel, a bucket, a rake, and a broom). You can add on elements, moldful by moldful. Or you can pile up the sand, compact it, then cut away from the mass to reveal the form you have in mind—or discover as you work.

Bring a picnic. The salt air is sure to give you an appetite, whether you're castling or looking on.

There's an innate sociability to these occasions. Sand builders join efforts to beat the tide. People of all ages can help: a group's youngest participants might enjoy spraying the construction with water from a plant mister, to keep the sand from drying out before judging.

Rules are very similar from one contest to another. You can bring what you like to prepare your plot and shape the sand, but the final structure must be only f sand and water. To decorate, you m use only objects found on the beach th day (shells, stones, driftwood). Famili other groups (children only or adu only), and individuals may enter, usua for free, and competitors who regis and show up earliest get the choice pl with the shortest haul from the sea.

Prizes, trophies, or ribbons are award after an announced judging time.

CALIFORNIA

June 21. *Alameda.* Robert Crown Memor State Beach. Registration starts at 9 at the intersection of Eighth Street and Westline Drive. Judging at noon.

July 19. *Imperial Beach.* Contest takes place on final day of week-long Sun and Sea Festival. Register at 10 at the beach. Judging starts around 11:30. Parking available near pier.

July 20. *San Diego.* Mission Bay, at Crow Point Shores. Registration starts at 9, building at 10, judging at 1. Plans are not definite: confirm in July by calling Rosemary Starns at (714) 276-2800.

July 26. *Ventura.* Marina Park (Pierpont Boulevard). To register, write to Recreatio Department, Box 99, Ventura 93001. Building is in the morning, judging in the afternoon; for details, call Sharon Coggins at (805) 644-7421.

July 27. *San Clemente.* San Clemente State Beach. Contest on final day of three-day Ocean Festival (aquatic competitions). Registration ($1) and building start around 7, with judging in midafternoon.

August 3. *Manhattan Beach.* Contest part of three-day International Surf Festival. Registration starts at 8, with building beginning at 9 and judging around 10.

August 24. *Long Beach.* Near Belmont Shore at foot of Junipero Avenue. To register by mail (and get a free parking pass), call the chamber of commerce at (213) 436-1251 and ask for an entry blank. Building starts at noon, judging at 2.

August 31. *Capitola.* Capitola State Beach. Registration starts at 9, judging at 1:30. Parking is limited, but a free shuttle bus will leave for the beach every 10 minutes from two points: State Highway 1 at Bay Avenue and 47th Avenue at Jade Street.

September or October. *Carmel.* Great Sandcastle Contest, sponsored by America Institute of Architects. Details not availabl at our press time: check in September by calling Jim Hommes at (408) 649-3013.

October 4. *Santa Barbara.* East Beach. Registration is from 10 to noon or by writing to Recreation Department, 100 E. Carrillo Street, Santa Barbara 93101. Building starts at 1, judging at 4. Open only to members of public service groups.

October 12. *Newport Beach.* Corona del Mar State Beach. Registration ($10 adults, children free) in the morning, building noon to 2, judging immediately after.

OREGON

June 28. *Cannon Beach.* Ocean Beach. To register, write to Chamber of Commerce, Box 64, Cannon Beach 97110. Building begins around 7.

July 19. *Lincoln City.* Bayfront (foot of 51st Street). Register from 9 to 11. Judging starts at noon. Arts fair and other events are also planned.

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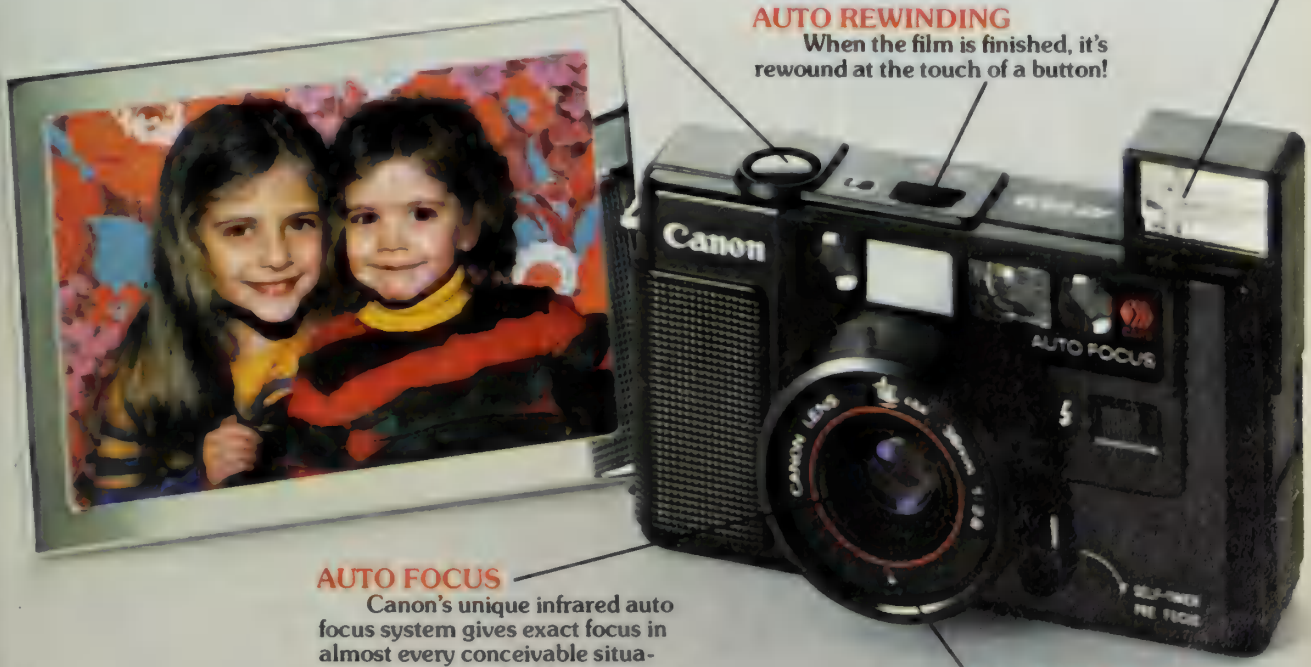

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TERI SANDIS

Illegal souvenirs *in this posed airport shot: feathers, stuffed crocodile (both from Asia), tortoise-shell musical instrument (Europe), ocelot skin - lined coat (South America)*

Forbidden sea turtle products: *soup (Hong Kong), stuffed turtle (Philippines), combs, jewelry, and belt (Japan, Fiji), watch bands made from flippers (Italy)*

Wild souvenirs . . . some cautions

Illegal endangered wildlife souvenirs and products are still available in many foreign countries. Some are easily avoided: entire stuffed animals, ocelot coats. But others—items of jewelry, buttons, shells, feathers, even body oils—may fool you. And yes, some things are just so beautiful that travelers are tempted.

Before your next foreign trip, find out about laws affecting products made from animals (such as skins and shells) of each country you'll be visiting. This will help you avoid inadvertent illegal purchases—items that you will have to surrender to U.S. Customs upon your return.

Interviews with U.S. Customs and the U.S. Fish and Wildlife Service turned up these warnings for tourists.

Beware of shopkeepers in foreign lands

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My husband said he'd be bored silly on a 14-day cruise. That's him singing with our waiters.

As you can see, he's enjoying his boredom enormously. Today for example, we're on our way to Caracas. So I thought we'd just relax, and rest up for South America, right? Wrong.

My husband—who loves to sleep late—was so full of vim that he got us up at the crack of dawn. Why? So we could get off to our morning exercise class.

After exercise class? An early breakfast at the outdoor verandah cafe. He wanted to eat hearty to be ship-shape for the basketball tournament.

The next thing I know, he hustles us off to dancing class. And this afternoon, over at the pool, who won first place in the inner-tube race? You guessed it.

We've been going on like this for days. Thank goodness we're on a 14-day cruise. We still have plenty of time. To relax. To bask in the sun. To be pampered. To feel better than we've ever felt in our lives.

See a travel agent about a Royal Caribbean cruise. You'll find one leaving Miami every week and it's one of the nicest vacations you'll ever have. If there's any doubt, ask my husband. He's been singing its praises since we've come aboard.

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who assure you that a product is legal. For example, the Philippines protects all its shells. Even so, there are shells for sale in souvenir shops and travelers may even be able to leave the country with them. U.S. Customs will seize them, however, because U.S. officers enforce the laws of other countries.

Another example: Mexico's laws protect all its live animals. Although a colorful parrot on sale in a village market may seem irresistible, it was probably trapped in the wild. A complicated permit system does exist to bring a bird back, but if a lengthy quarantine turns up any disease, the bird may have to be destroyed.

Just because you've seen an item for sale in this country, don't assume that it's legal to buy it abroad. Certain animal products can be imported into the U.S. only with a permit. In Italy, travelers may be tempted to buy the handsome lizard skin credit card case because they've seen one like it for sale in a Beverly Hills shop, but they'll probably lose it to Customs upon their return.

In most cases, items made from alligator skins are prohibited. Complicating matters are certain French shoes and purses made from the skins of alligators raised in Louisiana. These products are stamped with a U.S. seal and may legally be brought into this country.

Unless travelers have a Pre-Act Certificate from the U.S. Fish and Wildlife Service or documentation proving ownership before 1973, they should plan to leave at home any shoes or purses they own of alligator, snake, or lizard skin, any tortoise-shell jewelry, or spotted cat coats. These items can be seized by Customs. For copies of the certificate, write to Federal Wildlife Permit Office, 1000 Glebe Rd., Arlington, Va. 22201.

A brochure available from U.S. Customs called *Pets, Wildlife* will give you other tips. Another booklet, *Facts About Federal Wildlife*, is available through some U.S. Fish and Wildlife offices, travel agents, and air carriers.

For data on the countries you'll be visiting, call a regional U.S. Fish and Wildlife office: in Seattle, (206) 442-5543; Portland, (503) 231-6125; San Francisco, (415) 344-5993; Sacramento, (916) 484-4748; Los Angeles, (213) 642-3933; Long Beach, (213) 436-1183; Denver, (303) 234-5341; Albuquerque, (505) 766-6546; or Honolulu, (808) 546-5608. The recently formed wildlife team of U.S. Customs in Los Angeles, (213) 646-9781, is another source of information.

What happens to the confiscated items? The U.S. Fish and Wildlife Service makes them available for loan to educational and research institutions as well as individual schoolteachers—sad reminders of once-glorious plumage, rippling muscle, underwater splendor. □

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Those ubiquitous skates *power a game of keepaway played on platform outside Cologne's Roman-German Museum*

What is a *Fussgängerzone?* This people-only place in Cologne

Poet Goethe *comes alive in chalk in middle of pedestrian walkway*

Rows *of Roman stonework intrigue visitor in museum's striking interior*

You can snack *on liqueur-flavored crêpes, sold at midstreet stand for 75 cents. "Eierpfannkuchen" means "egg pancake"*

"Fussgängerzone" *is marked by sign. These streets are for pedestrians only, except during morning delivery hours*

Streets for pedestrians only are quite common in Europe—especially in West Germany, where postwar reconstruction has brought some 500 "fussgängerzones" to 300 towns and cities.

These pedestrian areas aren't just short stretches converted to malls. They are *networks,* planned as such from the beginning, to make city centers vibrant places where foot traffic is lively and safe, attractive to visitors and residents.

Here we show parts of the fussgängerzone of the Rhineland capital of Cologne (spelled *Köln* by the Germans), which gives you a chance to explore this urban design idea while enjoying the sights of one of the great cities of Europe.

The Cologne zone is anchored by the city's imposing Gothic cathedral; its dark, twin 515-foot spires survived wartime raids to pierce the sky above the Rhine's west bank. Here the city was founded by the Romans in A.D. 50, and the Roman presence is celebrated by an almost luxurious Roman-German museum virtually adjoining the cathedral.

The museum is a bargain: for one mark (about 50 cents) you can see Roman art, glass, and artifacts from everyday life. (The museum's adjoining Dionysos Restaurant is another find overlooked by most visitors; its full-course luncheons cost 15 marks or so.)

The pedestrian route branches off in two directions: north a bit to connect with the main train station, and south along Höhe Strasse through an amiable jumble of small shops, street vendors, musicians, sidewalk artists, and restaurants.

A midday stroll down Höhe Strasse will show you what a pedestrian area is all about: cars have their place (elsewhere), and here people have theirs—lounging, shopping, talking, roller-skating, sipping Kölsch (the light local beer) at outdoor cafes. Unlike some other fussgängerzones, Cologne's doesn't have many amenities like benches and kiosks; it instead is meant for people in motion—like a great conveyor belt.

If you're arriving by car, there are several parking garages surrounding the pedestrian zone. Keep your parking stub with you; before retrieving your car you exchange it for a token that operates the exit gate. (Most residents opt for Cologne's well-integrated public transit, which has an underground stop in front of the cathedral.)

For maps and information on tours and restaurants, stop at the tourist office across the plaza from the cathedral. □

"WE'D NEVER PUT OUR BROWNIES IN A LITTLE TIN BOX."

Carole Levine, Brownie Troop Leader.

As you can see, the leaders of Brownie Troop #1900 in Los Angeles have a lot of responsibility. So when it came to choosing troop transportation, they were very tough cookies.

As one of them puts it, "I must have frustrated half the car salesmen in southern California looking for the right station wagon. The ones I looked at were so small and tinny. No way would I ever feel safe driving a bunch of girls around in any of them."

One by one, each of these Brownie leaders ended up at a Volvo dealer. And today, Troop #1900 travels around in a Volvo wagon train.

According to one of the other leaders, "I was sold on the Volvo wagon the minute I saw it. I knew the girls would fit very comfortably inside and there would be plenty of room left for their gear. When I drove the Volvo, it wasn't all over the road like other wagons I'd driven. It offered great visibility. And it just plain felt solid and safe."

If you're looking for a station wagon you can feel good about putting your kids in, join Troop #1900. Buy a Volvo.

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Long, narrow, *and irregular, Whidbey Island lies in Puget Sound like a steppingstone to the mainland, Olympic Peninsula, Gulf Islands, or Canada*

Even in July, *sundown brings out sweaters and jackets for a bracing stroll on rocky North Beach*

Early-morning ferries *from Mukilteo to Clinton are often least crowded of frequent 17-minute runs*

Victorian reminders, *false-front buildings line Langley's streets*

Warmer by far *than the Sound, Cranberry Lake draws bathers*

DON NORMARK

The great detour...Whidbey Island

For beaches, salt-air villages, boat-cluttered harbors, farmlands, grand views... and as another way to Olympic Park, the San Juans, the North Cascades, Canada

In 1792 Captain George Vancouver explored Puget Sound on the H.M.S. *Discovery*. On June 10, the ship's master, Joseph Whidbey, successfully navigated a narrow, treacherous waterway, now known as Deception Pass, proving that the land mass to the south was an island. Vancouver named it after Whidbey and noted in his journal that its vegetation and greenness reminded him of some of the great estates of Europe.

Deception Pass is today tamed by a lofty bridge that connects Whidbey Island to the mainland. Near the island's south end, ferries carry tourists—and some commuters—across the short stretch of water from Clinton to Mukilteo, and Seattle is only 26 miles south.

Still, Whidbey remains in every sense an island—a place apart. With weathered villages, boat-cluttered harbors, rolling hills and farmland, steep cliffs rising from broad, driftwood-littered beaches, and views on both sides of snow-capped mountains, it offers as much of the romantic Pacific Northwest as you're likely to find.

If you're heading north of Seattle, Whidbey is a logical alternative to the Interstate Highway 5 route (see map at far left). It is on the way to the Olympic Peninsula and Olympic National Park by the ferry crossing from Keystone to

Farming is Whidbey. Shop roadsides for vegetables, also for fresh berries

DON NORMARK
Ancient oaks, *verdant pasture, and docile Herefords are a typical farm scene*

Happily burdened *with bounty, pickers leave garden south of Oak Harbor*

Port Townsend. Going up the full length of the island and on to Anacortes, you can catch ferries to the San Juan Islands. And from Anacortes, State Highway 20 continues east to North Cascades National Park.

As a destination from Seattle, the island is a 150-mile round trip. You can make it in a comfortable day's outing, though ferry waits can be as long as 4 hours in summer, especially on weekends. (To check on schedules, call 464-6400 in the Seattle area, (800) 542-0810 in the rest of the state.) Whidbey has ample motels and campgrounds to allow longer time for exploration.

Changes may come soon to Whidbey

Like much of the West, Whidbey is confronted with great change.

Precensus figures estimate the population at more than 34,000, up 10,000 from 10 years ago. Two proposed pipelines would cross the island, carrying Alaskan oil from ports on the Olympic Peninsula to the eastern U.S. Growing industry at the north end of the Puget Sound metropolitan area, like Boeing's 747 plant in Everett, may turn some island towns into bedroom communities.

But water shortages and increasingly stringent land-use controls may curb growth. Activists like members of SWIFT (Save Whidbey Island For Tomorrow) fight to keep the island from slipping politically and ideologically closer to the mainland. "Change is inevitable," snorts one islander whose grandparents homesteaded near Useless Bay. "We just don't want to see it going hog wild!"

From south to north, places to explore

State highways 525 and 20 form Whidbey's spine. They run nearly the length of the island, from Clinton, where the Mukilteo ferry lands, 49 miles up to the north end, and off across Deception Pass Bridge. From these highways, you can take numerous side trips, though nowhere are you more than 3 miles from salt water.

A current map showing state and county

roads is helpful; a good free map is available from many island merchants. Weather-beaten wooden road signs often point the way, and islanders will give directions, furnish weather reports, and keep visitors posted on seasonal produce, game, and shellfish.

Drive off the ferry at Clinton and you're on State 525. A little more than a mile up the road, there's a gravel turnout on the east side. On Saturday mornings about 10, farmers muster here to sell their fresh produce; lettuce, cabbage, beets, beans, zucchini, kohlrabi, and carrots are standards that are usually available this month.

Farms dot the island. When eggs are fresh, when vegetables or fruits are in season and produce is for sale, signs along the road will let you know. Some signs invite you to pick, others point down a lane to a farmhouse or herald a family-operated stand.

About 2 miles north of the farmers' market site, a sign points north to Langley Road, which cuts through forest, curves around a high bluff looking toward the Cascades and down on Saratoga Passage, and then becomes the main street of Langley. Here islanders and island architecture are pushed together with a merry eclecticism. The quality of crafts and antiques for sale here is high.

A deli and ice cream shop are good for snack stops and to catch up on local news. A big grocery brims with picnic makings. To get down to the beach, take the wooden staircase near the totem pole at the south end of the street.

At the end of town, turn south (with the Cascades off to the right it will seem as if you're turning west). Follow either Coles Road or Hill Road (becoming Bayview Road) back to State 525, then head up the island. Depending on the route you choose, it's 2 or 4 miles to where Double Bluff Road goes south to Double Bluff Beach.

Beaches surround Whidbey

Steep cliffs, development, or the absence of roads render some beaches impossible to reach, but the best ones have clearly marked public access.

Double Bluff is one not to miss. Two miles down the road from the turnoff from State 525, you'll come to a parking area. Climb over the drift logs, and you're on a spectacular beach. Cliffs soar up to 370 feet from the water's edge; at low tide, the sand beach is broad.

Back onto State 525, go northwest 2 miles, then turn west onto Bush Point Road to 85-acre South Whidbey State Park, with beaches, forests, and places to picnic, camp, swim, and fish.

Out of the park, Smuggler's Cove Road follows the island's west coast 4 miles north, rejoining State 525 just north of Greenbank.

Five miles north, the main highway becomes State 20. A sign marks the road west to the Keystone Ferry dock, then on to Fort Casey State Park.

The coastal defense post from the turn of the century has been retired, but the beach, forests, and open meadows of the park, as well as a lighthouse and the big, abandoned concrete gun batteries make an interesting stop. Get there early if you plan to camp, as the 35 units are snatched up quickly.

Follow Fort Casey Road north out of the park, then in less than a mile go left on Hill Road to Ebey Road; you'll be near Ebey's Landing and Ebey's Prairie. High above the Sound on a grassy plain is a controversial piece of land. Proclaimed a National Historic Reserve in 1978, Ebey's Prairie still has privately owned land that may be developed. Island emotions run hot on the issue.

A wide, well-worn path takes you on a 5-mile loop hike from beach level up to the top of the bluff with views of the water; face inland, and you'll see mountains from Rainier to Baker.

Ebey Road goes northeast away from Ebey's Prairie, crossing State 20, then becomes Broadway and runs into Madrona Way. To the east is Coupeville. In 1856 this town had seven blockhouses, to protect the settlers from the fierce Haida who came from the Queen Charlotte Islands on slave raids. Victorian houses, an old cemetery, and three remaining blockhouses make this village attractive to history and camera buffs.

Go west and north on Madrona Way and you'll come to the Captain Whidbey. Inside the inn's handsome old lodge of madrona logs, you can sink into an enormous chair and watch the fire while you wait for dinner. Reservations are essential for dining or to stay overnight in guest rooms.

Madrona Way curls around Penn Cove. Turnoffs invite parking and walking the beach. Then you're back on State 20 heading north toward Oak Harbor, the largest of Whidbey's towns.

Last stop before you leave: Deception Pass State Park

Half of this 5,000-acre park is on Whidbey, the rest on Fidalgo Island to the north. Plan to stay several hours.

There are more than 250 campsites, as well as picnic facilities, swimming at Cranberry Lake, and miles of beach. The Olympics stand up across the Sound, and fragrant forests of enormous firs and cedars are threaded with trails. On North Beach or from the lookout above the bridge, you can watch boats struggle through the treacherous waters of Deception Pass and think back to Vancouver's excitement at Whidbey's discovery. □

Biking through dunes *in Deception Pass State Park, cyclists travel on firm asphalt trail blown over with beach sand*

1980 is news year in home cooling

IF YOU NOW HAVE cooling, how to save energy, dollars

How much will you pay to keep your house livably cool this year? In the parts of the West where cooling demands are greatest, electricity costs may rise 20 to 50 percent before crisp winter air lifts the blanket of 1980's final heat spell. But now—with our hottest days still ahead—you can take steps to reduce your energy use and save money.

If you own an air conditioner, heat pump, or evaporative "swamp" cooler, a few maintenance steps will help it run more efficiently. And part of the news in 1980 is the wider availability of devices that work with these air coolers to cut their operating time.

If you're shopping for a new air conditioner or heat pump, you'll find equipment that costs more to buy but less to operate, as manufacturers respond to the need to cut fuel consumption. California's efficiency standards—the nation's strictest—will be even stricter for units offered for sale in the state after November 3.

A federal regulation in effect since May requires energy-efficiency labeling to help you compare the operating cost and payback period of similar units (see box on page 70). Labels must be on room air conditioners now; they're expected on central air conditioners next year.

If you're puzzling over what type of cooling equipment to buy, there's news in the familiar electric fan, and there are good reasons to consider an evaporative cooler if your climate's right. (For a discussion of cooling with heat pumps, see page 126 of the November 1977 *Sunset*.)

This is also the time to take a fresh look at some old principles of keeping cool. Remember, many home improvements that cut energy use will qualify you for an energy tax credit. For the federal rules, get IRS publication #903, *Energy Tax Credits for Individuals;* your utility should have information on state rules.

First, back to basics. Take a walk around and through your house, keeping in mind the sun's daily path overhead, and remember two simple points: one, you want to keep as much heat as possible out of your house in the first place; two, air in motion—even warm air—feels more comfortable than still air.

The sketch below shows several fundamental ways to help prevent heat from radiating to interior ceilings, walls, floors, and furniture—all of which function as thermal mass, retaining heat long after outside temperatures have dropped. You'll also see attic ventilators. Used in the right combination and location, they provide through-ventilation to keep heat from settling in your attic.

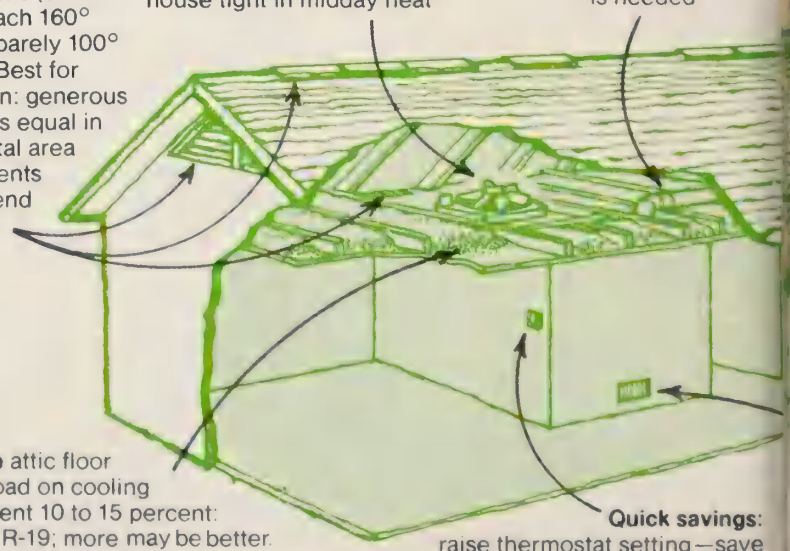
IF YOU PLAN to install cooling, new choices, requirements

Rediscover fans to move air through your house's interior. Old-fashioned ceiling fans are making a comeback, and there's a new generation of attic fans called "whole-house" fans: installed flush in the ceiling in a central location and operated in conjunction with opened windows or doors, one fan can move up to 10,000 cubic feet of air per minute through the house, up through the attic, and out through attic ventilators.

These fans use 1/6 to 1/10 the energy of central air conditioning and cost $225 to $800 installed (or up to $500 for the do-it-yourselfer with carpentry/wiring savvy). Quieter than the old fans, the most efficient have six blades, not four.

Where temperatures seldom go above 85°, one or more fans may provide all the cooling you need. Elsewhere, they can reduce to a couple of hours per day the time you need air conditioning.

How big a fan do you need? Calculate the cubic-foot volume of your house, minus garage, closets, attic, and so forth.



BILL ROSS

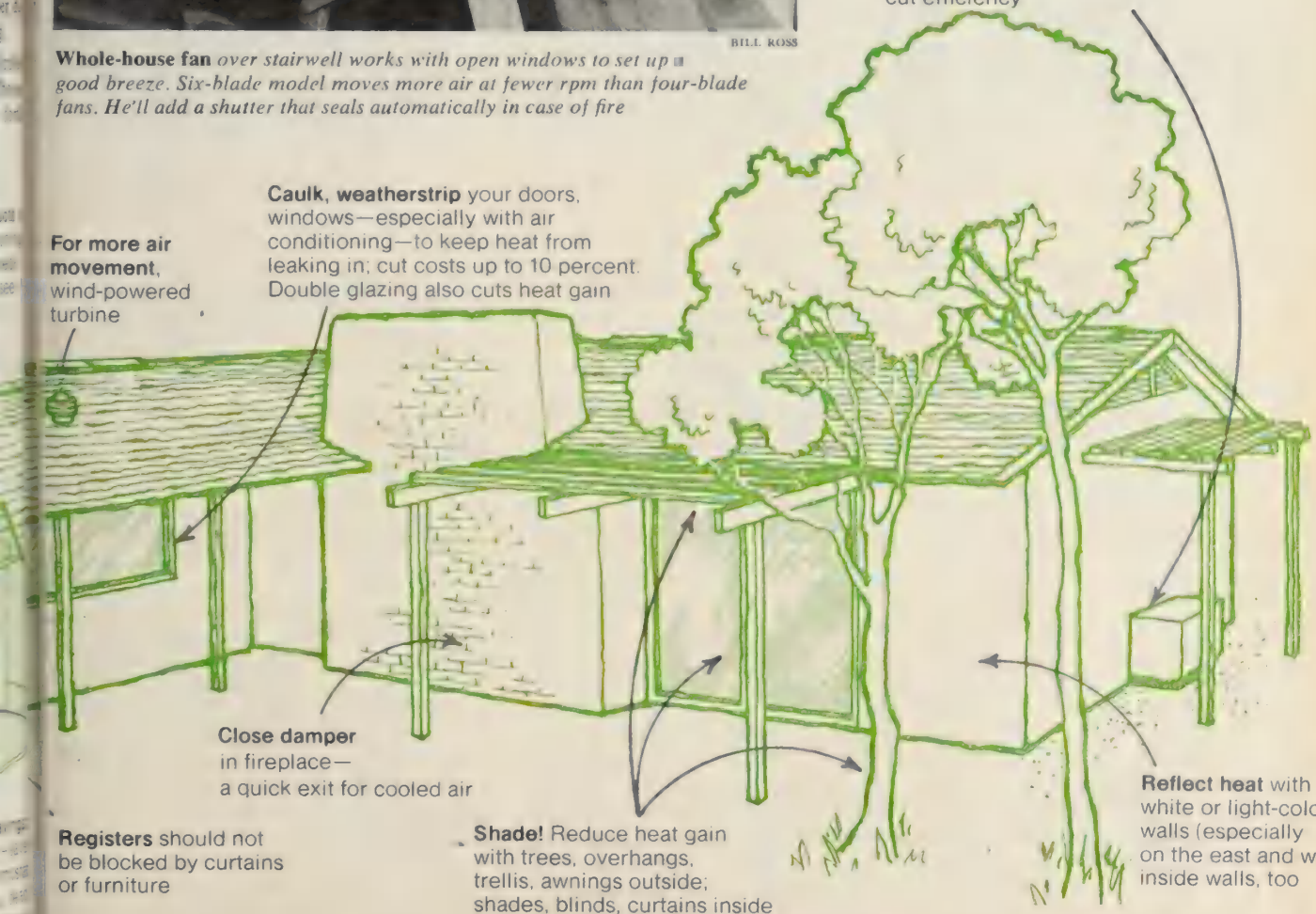
Whole-house fan *over stairwell works with open windows to set up a good breeze. Six-blade model moves more air at fewer rpm than four-blade fans. He'll add a shutter that seals automatically in case of fire*

Energy-saver thermostats *cut the time air conditioner operates. You set the clock type at left with pegs that fit in notches in dial. New digital model is easier to set and offers such options as weekly programming with weekend override*

Air conditioner or evaporative cooler? Both do best in shade (increases efficiency 5 percent). Keep air space clear 4 feet above unit, at least 1 foot all around. Vegetation by cooler will raise humidity, cut efficiency

Caulk, weatherstrip your doors, windows—especially with air conditioning—to keep heat from leaking in; cut costs up to 10 percent. Double glazing also cuts heat gain

For more air movement, wind-powered turbine



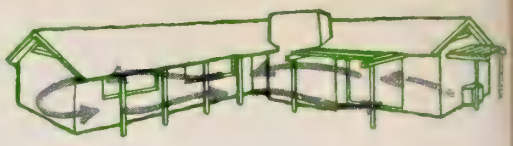
Close damper in fireplace—a quick exit for cooled air

Registers should not be blocked by curtains or furniture

Shade! Reduce heat gain with trees, overhangs, trellis, awnings outside; shades, blinds, curtains inside

Reflect heat with white or light-colored walls (especially on the east and west); inside walls, too

AIR CONDITIONING: The energy gulper. Change filter. Do cleanup. Watch air flow



Air conditioners filter, dehumidify, and cool air regardless of outdoor temperature, humidity level. Eat 3 to 5 times the energy of an evaporative cooler. Furnace ducts deliver small quantities of chilled air to mix with room air. Air is continually recirculated; house must be closed tight.

Central air conditioners are sized by "ton" of heat extracted from the air— 1 ton equals 12,000 BTU per hour. Range: 2 to 5 ton. Room units are sized by BTU/hour.

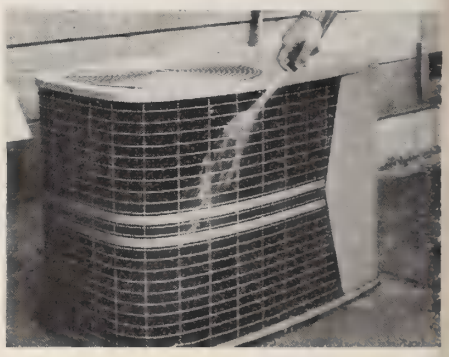
Installing a central system can cost $2,000 to $3,000 or more. Room units cost $200 to $750 installed.

Newest models offer clogged-filter signals, thermostatically controlled fan speed, an internal timer like a simple energy-saver thermostat.

Less tolerant of neglect than a cooler; repairs tend to be costly. Noise level: a steady roar if unit not kept in good repair; newer models quieter.

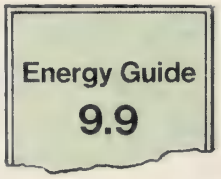
Changing the filter *over air intake will help his furnace/central air conditioner work more efficiently*

Shrubbery *shouldn't encroach on air conditioner's condenser unit (or on a heat pump). Cooling her house depends on an unimpeded air flow out here*



Rinse lint *and dust from condenser coils. First cut power to unit, and don't aim water directly at fan motor*

A



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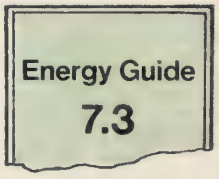


HOW EFFICIENT? Read the label

Energy-guide labels devised by the federal government help you decide how much you want to pay for extra efficiency. Each label must give the air conditioner's Energy Efficiency Ratio: the heat the unit can extract from the air in 1 hour (measured in BTUs), divided by the electrical input (watts) required to do so. The higher the EER, the more efficient the machine.

Also on each label is a chart of annual operating costs at various utility rates and annual hours of use, and the EER of the least efficient and most efficient comparable models. Here's an example of how to use the information to evaluate two room air condtioners:

Price of unit A (EER: 9.9)	$400
Price of unit B (EER 7.3)	$350
Annual hours of use (estimate)	750
Expected life of unit	10 years
Local kilowatt-hour cost	6 cents
Annual operating cost of B (from EER label)	$37
Annual operating cost of A (from EER label)	$25
Annual energy-cost savings	$12
Energy-cost savings over life of unit A	$120
Price difference between units	$50
Cost savings over life of unit A	$70

Divide price difference ($50) by annual energy-cost savings ($12) to get payback period: 4.2 years.

A fan should move this volume of air per minute. The rule for adequate attic exhaust area is: 1 square foot of vent per 750 cubic feet per minute of fan capacity. You may need to increase the total area of vents or louvers. Look for whole-house fans at full-service department stores, or look under Fans—Household in the yellow pages. Write to *Sunset* (see address on page 73) if you can't find the high-efficiency models.

Air conditioning— the energy gulper

You can cut your unit's appetite by keeping it in good running order. The steps are about the same for a central air conditioner, room unit, or heat pump.

A basic understanding of how a system works will clarify the need for maintenance: Warm household air is drawn through a filter (removing dust) and over a heat-exchange coil of cold refrigerant, which absorbs the heat. A compressor moves the heated refrigerant through

EVAPORATIVE COOLING: Do cleanup. Inspect pads. Change pads annually

Evaporative coolers deliver filtered outside air, cooled to the level permitted by outside temperature and humidity.

Air must be exhausted via open windows. Total exhaust area needed: twice the area of the registers. Attic ventilators are essential to prevent moisture buildup there.

Ducts, which carry large quantities of less noticeably cooled air, must be three times the cross-section dimensions of air-conditioning/heating ducts, are 50 to 100 percent more expensive.

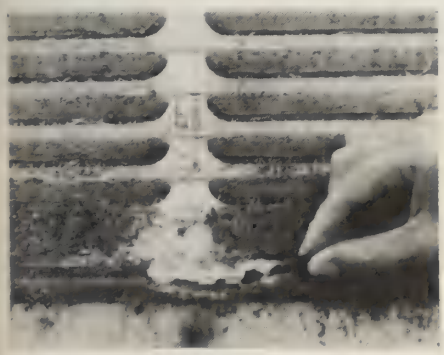
Coolers are rated by cubic feet per minute (cfm). Range: 2,050 to 6,500 cfm. Cost: $315 to $535 without ductwork. Good to have a two-speed blower: on "low" you get ⅔ air flow at 35 to 45 percent energy use.

Window units can be seasonally installed.

Noise level: a clatter if fan belts, pulleys are not properly adjusted.

BILL ROSS

Annual replacement *of filter pads, where dripping water evaporates, means cooler can pull more air into house with less energy. Roof-center installations require the least extensive ductwork but are harder to maintain and shade*



Scrape corrosion *off swamp cooler, then coat metal with asphalt emulsion so rust won't plug water distribution tubes*

condenser coils, where a fan discharges the heat into the outdoor air—the reason why the area right around an air conditioner is hotter than the surrounding outside air.

Every month or two, replace the disposable filter ($1 to $1.80 at hardware stores), as pictured at far left, or hose off the permanent filter. (Be sure air conditioner is *off* before removing filter.) Clogged filters, the biggest cause of compressor failure (25 percent of service calls), mean the system has to work harder and longer to recirculate enough air for you to feel a cooler temperature. On a roof-mounted or room air conditioner, remove the unit's protective grille to replace or wash the filter.

The second place grime builds up is on the outdoor condenser coils. At the start and end of the cooling season, use a spray bottle with a detergent-in-water solution to wash the coils, then hose them clean. This step is even more important with a heat pump, since the coils work during the heating season, too.

How much cooling do you need? To learn what size unit you need, have at least three contractors calculate your home's heat gain (based on climate, window area, shading, and so on) and present written bids. Remember that a smaller unit operating steadily is more efficient than a larger one frequently cycling on and off (decreasing its ability to control humidity).

Conservation experts are encouraging shoppers to consider the alternative of two or more high-efficiency room air conditioners placed for zoned cooling, and closing off rooms not in use.

You get more, you pay more. An air conditioner's efficiency is expressed in terms of its EER—explained at far left. By November 3, central air conditioners for sale in California must have a minimum EER of 8.0; heat pumps, 7.5; 115-volt room air conditioners, 8.7; 230-volt room units, 8.2. (Of one manufacturer's 39 models of room units, only 2 will meet these California standards.) Federal minimum-EER standards are pending; meanwhile, other states are recommending California's.

Figure that an 8-EER unit uses a third less energy than a same-size 6-EER unit, and 14 percent less than a 7-EER. The highest available are 12's.

To make a unit more efficient, manufacturers must increase the size of the condenser. For units that meet the coming standards, prices will vary widely, but the largest air conditioner manufacturer says, "Expect to pay *roughly* $60 to $100 more—the average is $80."

Don't overcool. It's the biggest waste of energy in hot weather. An energy-saver or "setback" thermostat tied into a central air conditioner or heat pump can prevent waste by removing the chance that you'll leave the unit running when you don't need cooling. Commonly available clock types cost $75 to $90. You program a dial inside the thermostat cover. For instance, if you regularly

FRESNO EXPERIMENT: Ice conditioning

DAVID STUBBS

Hot afternoons bring peak electricity demand as millions of air conditioners switch on at the same time. So utility companies are studying ways to defer energy use to hours when power capacity is not strained (postponing costly construction of power-generating plants).

The homeowner at near left is learning about his part in Pacific Gas & Electric Company's two-year experiment, underway this summer in Fresno, California. "Cold-storage" tanks—water-filled freezers—have been placed at 30 volunteer homes with central air conditioning (air conditioning is 20 percent of PG&E's summer energy load).

At night, freon-filled pipes (visible in the opened tank) freeze water into four 2-inch by 4-foot by 9-foot sheets of ice, then the compressor motor shuts off.

At midday, ice water from the tank circulates through the air conditioner's heat-exchange coils, enabling the unit to cool household air without as much energy as normally required.

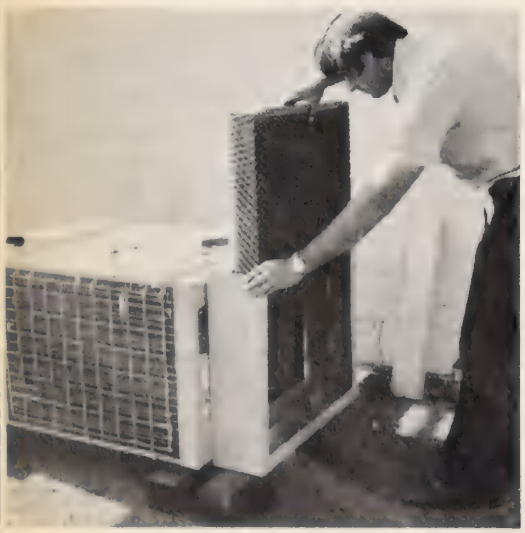
In the future, similar tanks could simply be part of a new home's air-conditioning package.

come home from work at 6 P.M., you preset the air conditioner to start cooling at 5:30; it won't turn on earlier, regardless of how hot the day was.

The newly available electronic digital thermostats cost about $150.

Look for both types at large home improvement centers, or ask an air-conditioning and heating contractor.

To accomplish similar savings with a room air conditioner, hook up a suitable appliance timer. Some new units have timers built in.



Water will saturate *pad of precooler mounted on air conditioner to cool air evaporatively before it hits cooling coils*

Evaporative cooling—the original air "conditioning"

Mechanically simple compared to air conditioners, evaporative coolers deserve serious thought in parts of the West where hot-season relative humidity only rarely goes above 20 percent.

Here's how a cooler works: A blower draws outside air through water-soaked fiber pads that are mounted inside louver panels on three sides. The air—its temperature lowered by the cooling effect of evaporating water—then flows through house ducts. An electric pump continuously recirculates water from a pan at the cooler bottom to a reservoir with distribution tubes at the top.

To keep a cooler working as efficiently as possible, remove the panels once a month or so and check the pads for uniform wetting. If you detect uneven wetting, carefully look over distribution tubes for clogs. Insert a wire to clear obstructions. Also, check the water pan for algae, rust, or mineral buildup from the water; scrub the pan free of it, to prevent tube clogging. If uneven wetting has made pads sag, straighten them, then hose them down to get the evaporative process going again.

Evaporation causes mineral concentration and scale buildup on pads, restricting air flow, and on other cooler parts, resulting in corrosion. Before peak cooling season, replace the pads ($1.25 to $3.50 each at well-equipped home improvement centers); pads containing redwood fiber help prevent algae growth.

At the end of the cooling season, open the cooler, set pads aside, drain the water pan, and scrub away rust or scale. Clean any corroded or rusted spots, and brush on a coat of asphalt emulsion (be sure it contains no asbestos), sold for $3 per quart at some hardware stores. Pay special attention around the pan's water line.

Where winter may bring freezes, shut off water at ground level and drain the water line; leave the pan drain line open to discourage rain and snow accumulation.

Shopping for a cooler? To see how big a cooler you need, calculate your house volume as described on page 68 for a whole-house fan. In the West, the general rule is to change the air equivalent of your house volume every 4 minutes in a well-insulated, well-shaded house, and every 2 minutes where cooling demands are most rigorous. So divide house volume by 4 or 2 to get the cubic-foot-per-minute rating that a cooler must provide.

Helpful hybrid. Relatively new to the residential market, a "precooler" is a small evaporative cooler that fits on an air conditioner's condenser. Air passing through the water-soaked pad is evaporatively cooled—as much as 30°—before it hits the air conditioner's condensing coils, reducing the load on the compressor and cutting operating time.

In recent Phoenix tests, Arizona Public Service Co. found that a precooler could cut energy use up to 20 percent. Assuming a $250 contractor-installed price, payback period was calculated at 4 years. Before adding a precooler, check with your air conditioner's distributor to be sure you won't be voiding your unit's warranty.

Better ideas?

Owners of the two houses at right used their engineering savvy to cut cooling costs over the past few years.

In the San Fernando Valley, Bruce Fischer borrowed an idea long used for industrial cooling in the Southeast. When the rooftop temperature reaches 90°, a sensor triggers a system that blankets the roof with a fine spray for about 10 seconds—the time it takes to just cover the roof with no runoff.

As long as roof temperature is over 90°, the spray repeats every 10 minutes—the time it takes for the previous wetting to completely evaporate. Evaporation lowers attic temperatures enough to cut cooling-season electrical usage 30 percent. For details on this system, write to Energy Efficient Concepts, Box 3933, Granada Hills, Calif. 91344.

In inland Orange County, Cypress College professor Wayne Freiman is using swimming pool water to cut his air conditioner's energy use 20 percent. To his condenser unit, he linked a small extra

NORMAN A. PLATE

Rimming the roof *are PVC pipes perforated for a fine, controlled spray. Evaporation keeps attic temperatures from soaring. Installation on 1,300-square-foot roof cost over $500; it cut air-conditioner use 30 percent, has added only $4 per month to water bill*

Water from spa and pool *is pumped through filter and heater to precool condenser unit by house. Heat-exchanged water keeps spa at 105°*

BILL ROSS

INNOVATIONS

Whole roof is evaporative cooler. Pool water is precooler. Search is on for more innovations

bank of coils (a booster heat-exchanger) that uses water circulated by PVC pipe from the pool and spa he built; the water cools the refrigerant in the heat exchanger. A bonus: heat extracted from household air circulates back to the pool heater, eliminating the need for any auxiliary heating.

If you are shopping for a new air conditioner, you can realize similar air-conditioning and water-heating economy by buying a unit built to be water-cooled; cost is about $200 more than for a standard unit.

Sunset is interested in hearing from other homeowners who have taken successful steps to markedly cut the costs of keeping cool. Write to Cooling Editor, *Sunset Magazine*, 3055 Wilshire Blvd., Los Angeles 90010. □

Red...and *seedless*

The new Red Flame has splendid parents, Thompson Seedless and Red Cardinal. It will be more available this year, especially this month

Bothersome little seeds have caused many shoppers to think twice before picking out a bunch of juicy red grapes at the market. If you're one of them, here's some good news: red grapes have gone seedless.

For the past decade, grape growers have done experiments crossing different varieties of red grapes with seedless greens. Two successful crosses—Red Flame and Ruby Seedless—have reached our markets in limited quantities.

The most promising newcomer seems to be the Flame variety, a cross between Red Cardinal and Thompson Seedless grapes. Growers are calling this new variety "the grape of the 80s" and indeed, after our testing last summer, we can understand why. It has the plump rounded shape, large size, and red coloring of the Cardinal, the extra-crisp texture and seedlessness of the Thompson, and the sweet flavor characteristics of both varieties.

Red Flames are available intermittently from June to August. Picking began in early June in the desert climate of the Coachella Valley, a new grape-growing area in Southern California. This month the harvest moves farther north up the Central Valley to the Arvin-Bakersfield area and will end up in the Delano area in August.

Last summer you could find the Red Flames only in a few selected Western markets. But more plantings are producing more grapes, so this year's crop is predicted to be about three times as great as last year's. Some growers are even replacing their Red Cardinals with the Flames and feel they may replace them completely in 10 years.

But for now, prices for Red Flames will still be higher than most grapes, about $1.30 to $1.70 a pound, so you'll want to select and store them with care. Purchase only plump, predominantly red grapes on pliable green stems. Store them in the refrigerator until you're ready to serve, then wash grape clusters with a gentle spray of water and pat dry.

For your first tasting, sample these new grapes out of hand as a light snack or dessert. Then try them in fresh fruit salads or in one of our simple seedless red grape recipes: a roasted chicken doused with red grapes in Port sauce, a non-fuss creamy pudding layered with red grapes, and a shimmering gelatin-and-grape salad. All the recipes go together quickly but are elegant enough to serve your best company.

Chicken with Port-flavored Grape Sauce

- 4- to 5-pound roasting chicken
- About 1 tablespoon melted butter or margarine
- Salt and pepper
- 1½ teaspoons chicken-flavored instant bouillon, dissolved in 1½ cups hot water
- ½ cup tawny port wine
- 2 tablespoons cornstarch, blended with 2 tablespoons water
- 1 tablespoon firmly packed brown sugar
- ¼ teaspoon thyme leaves
- 2 cups seedless red grapes

Place chicken, breast side down, on a rack in a shallow roasting pan; brush with butter and sprinkle lightly with salt and pepper. Roast in a 325° oven for 45 minutes. Then turn chicken breast up; continue roasting about 1 hour longer or until leg joint moves easily and juices run clear when pierced in the thickest part of thigh.

Transfer chicken to a serving platter, cover, and keep warm. Pour broth into roasting pan, scrape up drippings and browned bits, and pour into a saucepan. Add the port wine, cornstarch mixture, sugar, thyme, and grapes. Cook, stirring, over high heat until the mixture boils, thickens, and clears.

Pour about half the sauce over and around chicken on serving platter. Pass remaining sauce at the table for guests to spoon over individual servings. Makes 4 to 6 servings.

Sherried Cream with Red Grapes

- ⅓ cup sugar
- 2 tablespoons cornstarch
- ⅛ teaspoon salt
- 2 cups milk
- ¼ cup cream sherry or apple juice
- 2 egg yolks, lightly beaten
- 2 tablespoons butter or margarine
- 1 teaspoon vanilla
- About 1½ cups seedless red grapes

In a 2-quart pan, stir together the sugar, cornstarch, and salt. Gradually add the milk and sherry until well blended. Set mixture over medium heat and cook, stirring constantly, until it boils; boil 1 minute. Remove from heat.

Stir part of the hot sauce into beaten yolks, then return all to the pan and cook for 30 seconds. Remove from heat and stir in the butter and vanilla until butter melts.

Layer spoonfuls of pudding and grapes in 4 stemmed glasses. Chill until serving time. Makes 4 servings.

Grapes in Wine Jelly

- 2 packages unflavored gelatin
- ⅓ cup sugar
- 2 cups water
- 2 cups semisweet white wine (such as Chenin Blanc, Gewürztraminer, or French Colombard)
- About 1¼ cups seedless red grapes

In a 2-quart pan, combine the gelatin and sugar; stir in 1 cup of the water and let stand 5 minutes. Stir over medium heat until gelatin and sugar are completely dissolved. Remove from heat; stir in the remaining 1 cup water and the wine. Chill until mixture is as thick as unbeaten egg whites.

Fold 1 cup of the grapes into gelatin mixture and pour into a 6-cup mold; cover and chill until firm. Unmold on a serving platter; garnish with remaining grapes. Makes 6 to 8 servings.

Grape juice variation. Substitute 1¾ cups white grape juice mixed with 3 tablespoons lemon juice for the semisweet white wine. □

GLENN CHRISTIANSEN

Dip right into *this stunning dessert: big red grapes in a sherry-flavored custard*

Look, no seeds! *Slicing a Red Flame gives proof of its claim to fame. The firm texture and bold color of these new grapes hold up well to heat in special dishes—such as the chicken in port wine sauce pictured at right*

RALPH CLEVENGER

NATIONAL PARK SERVICE

Newest park *Lonely sentinel for sailors, lighthouse rises over Anacapa Island, part of new Channel Islands National Park. Droopy-nosed elephant seal and California sea lions share a sandy stretch of beach on San Miguel Island*

1980 national park picture in the Western States...new park ideas, grand old-timers making news

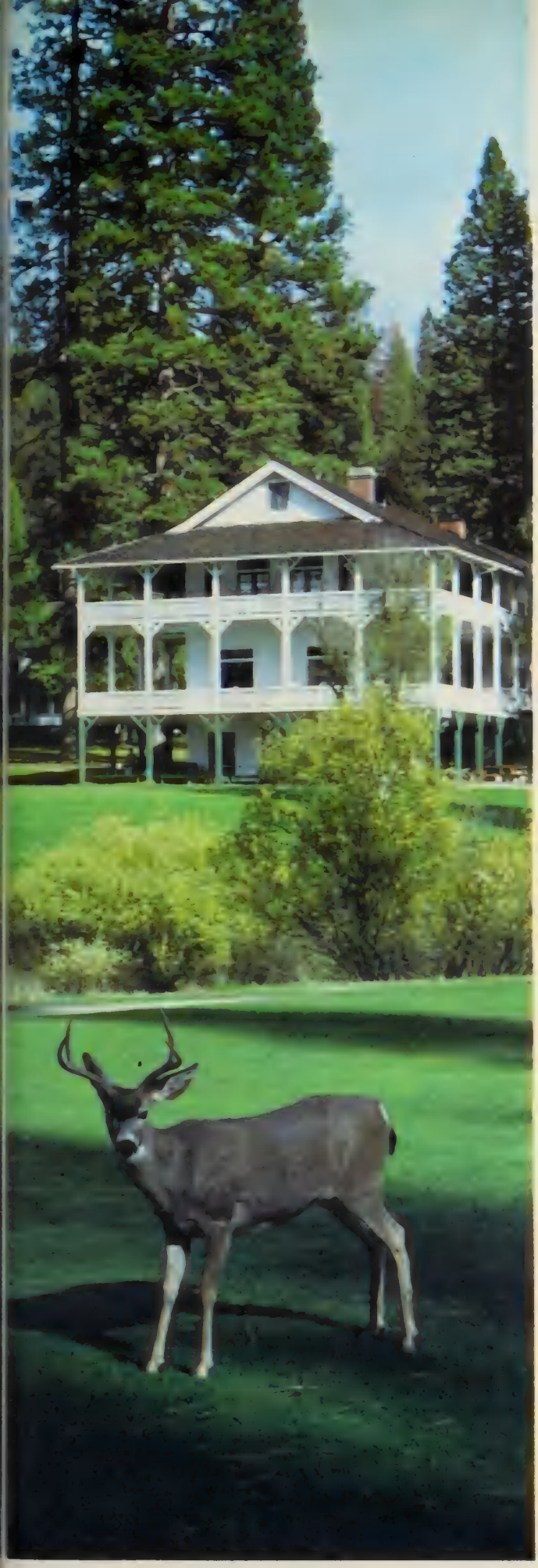
Our natural treasure chest of national parks is growing. Newest is Channel Islands National Park—a string of rocky pearls off the Southern California coast—which won park status in March. And proposals for more parks in Alaska are now being considered by Congress.

The new edition of *Sunset's* book *National Parks of the West* (Lane Publishing Co., Menlo Park, Calif. 94025, 1980; $8.95 softcover) offers a preview look at the new park and some of the proposed ones. Appearing, too, are fresh perspectives on such great old veterans as Glacier, Grand Teton, Yellowstone, Yosemite, and many more. Over 200 color photographs, taken by *Sunset* staff and top wilderness photographers, present a striking pictorial census of national parks around the West—our country's richest repository of these preserves.

Changing park picture. In the decade since this *Sunset* title last viewed the subject, Capitol Reef and Arches (both in Utah) have also been added to the system—and to the new book. Here, too, are updated topographic maps showing new roads, trails, and campsites, plus suggestions for rediscovering familiar parks by alternative travel: backpacking, hiking, biking, cross-country skiing, and traffic-relieving shuttle trams. Rounding off the book is a directory of national monuments and other Park Service - administered areas, including national recreation areas and historic sites.

New offshore park. Five islands now lie within the boundaries of Channel Islands National Park: Anacapa, Santa Barbara, San Miguel, Santa Cruz, and Santa Rosa (the latter two are privately owned). Access to most of the islands is still limited. For information on how to visit them, write to Channel Islands National Park, 1699 Anchors Way Dr., Ventura, Calif. 93003; (805) 644-8157.

Only Anacapa Island (some 11 miles off the mainland) can be regularly reached by public excursion boats that spend about 2½ hours exploring the eastern portion of the island. For



ELLIOTT VARNER SMITH

Proposed park

Cloud-masked Arrigetch Peaks beckon hiker into Alaska's Gates of the Arctic National Monument

Old favorite refreshed

Grazing deer is gentle guardian on grounds of Wawona Hotel. After 125 years of serving Yosemite travelers, changes may be coming for the hotel complex and the surrounding area

1980 park report

details on trips sailing daily between mid-June and Labor Day from Oxnard and Ventura, write to Island Packers, Box 993, Ventura 93001; (805) 642-3370 or 642-1393.

Most of Santa Cruz Island has been acquired by The Nature Conservancy, a nonprofit conservation group. Because of this island's isolation and fragile nature, access is strictly limited. Write to the Santa Cruz Island Project, 735 State St., Suite 201, Santa Barbara 93101.

More parks in Alaska? Pending legislation that could grant national park and preserve status to ten recently named national monuments in Alaska was expected to reach the floor of the U.S. Senate later this month. Meanwhile this summer, you can visit the monuments: among them are Gates of the Arctic and Wrangell - St. Elias. (Special travel preparations are often necessary.) For sheets describing these areas, write to the National Park Service, Alaska Area Office, 540 W. Fifth Ave., Anchorage 99501; (907) 271-4243. □

Supper salad arrives in a pastry boat

The boat building is easy. Then you fill it with your salad or ours

Our cover picture *shows the chicken and pod pea version of Salad-in-a-Boat, ready for an easygoing patio meal*

Launching a supper salad in a crisp pastry boat is one sure way to make a splash this summer. This spectacular-looking entrée belies its simplicity, and offers intriguing texture and flavor contrasts: a crackling, chewy crust and a layer of crisp fresh vegetables crowned with a cool, creamy salad.

The fanciful pastry is just cream puff batter you bake in one large round. Make it at your convenience. A pastry boat keeps well at room temperature overnight, or you can freeze it for longer storage. Then a brief reheating revives its fresh-baked appeal.

The salads we suggest—juicy chicken, chopped egg, and succulent fish—can also be assembled ahead, or prepare one of your own favorites. Just before serving, you can quickly line the crisp crust with a complementary vegetable and nestle the salad on top. Cut the round into wedges to serve 4 to 6.

Salad-in-a-Boat

- ⅔ cup water
- 5 tablespoons butter or margarine
- ¼ teaspoon salt
- ⅔ cup all-purpose flour
- 3 eggs
- Chicken, egg, or fish salad (recipes follow)

In a 2-quart pan, combine the water, butter, and salt. Quickly bring to a boil, stirring to melt butter. Add flour all at once, remove pan from heat, and beat ingredients with a wire whip until smooth. Beat in eggs, one at a time, until mixture is smooth and glossy. Spoon into a greased 9-inch cheesecake pan with a removable bottom or spring-release sides. Spread evenly inside pan.

Bake crust in a 400° oven for 40 minutes or until puffed and brown. Turn off oven. Prick with a wooden pick in 10 to 12 places and leave in closed oven for about 10 minutes to dry, then remove pan from oven and cool completely. Remove crust from pan.

If you make the pastry boat a day ahead, cover loosely with foil and store at room temperature. For longer storage, wrap completely in foil and freeze. Thaw completely, then recrisp pastry uncovered in a 400° oven for 10 minutes. (Recrisp even if stored at room temperature.) Cool, then add the salad of your choice and garnish. Makes 4 to 6 servings.

Chicken and pod pea salad. Combine 3 cups cooked chicken (in bite-size pieces), 1 can (8 oz.) water chestnuts (drained and sliced), ½ cup thinly sliced green onion, and 2 hard-cooked eggs (coarsely chopped). In a small bowl, stir together 1 cup sour cream, 1 teaspoon lime juice, 2 teaspoons *each* sugar and curry powder, and ½ teaspoon ground ginger. Pour dressing over chicken mixture and mix well. Season to taste with salt and pepper. Cover and chill up to 24 hours.

Remove tips and strings from ¼ pound edible-pod peas. Drop into a pan of rapidly boiling water and boil for 1½ minutes. Drain, plunge into cold water, and drain again. (Or place in a shallow baking dish, cover, and cook in the microwave oven at full power for 1½ minutes; drain.) Cover and chill if cooked ahead.

To serve, arrange pod peas in bottom and up the sides of salad boat. Pile chicken salad on top and garnish with fresh coriander (cilantro) or parsley.

Egg and spinach salad. Combine 12 hard-cooked eggs (coarsely chopped) with 3 thinly sliced green onions and 1 cup thinly sliced celery. In a small bowl, stir together ½ cup mayonnaise, 1 teaspoon *each* Dijon mustard and mustard seed, and ¼ teaspoon ground cumin; gently mix into egg mixture. Season salad to taste with salt and pepper. Cover and chill as long as 24 hours.

To serve, line salad boat with about 1½ cups small spinach leaves (or coarsely shredded large leaves). Pile egg salad over spinach and garnish with 8 to 10 cherry tomatoes, halved.

Chilled fish and carrot salad. Combine about 1 pound cold cooked fish fillets (such as red snapper, rock cod, or salmon in bite-size pieces), 1 cup frozen peas (thawed and well drained), ½ cup thinly sliced green onion, 1 hard-cooked egg (coarsely chopped), and ¼ pound small cooked shrimp (reserve a few).

In a small bowl, stir together ½ cup mayonnaise, 2 tablespoons tomato-based chili sauce, 2 teaspoons lemon juice, 1 teaspoon prepared horseradish, and ½ teaspoon grated lemon peel. Gently stir into fish mixture; season with salt and pepper. Cover; chill as long as 24 hours.

To serve, arrange about 1 cup coarsely shredded carrot in bottom and up the sides of a salad boat. Pile fish salad over carrot and garnish with reserved shrimp and 4 to 6 lemon wedges. □

1· Spread the batter

Evenly spread smooth, glossy cream puff batter over bottom and up sides of a deep cheesecake pan

DARROW M. WATT

2· Bake the boat

After baking, remove from oven and set aside. Each puffed-up crust has a unique shape, with high, crispy sides

3· Line the boat

Place the boat on cutting board or platter and line with spinach leaves before you load it up with filling

4· Cut first wedge

Garnish egg salad with cherry tomato halves; cut boat into thick pie wedges for a warm-weather supper

Modern-day Pegasus *takes his young rider for a soaring back-yard ride. Even two-year-olds can learn push-pull to propel the swing*

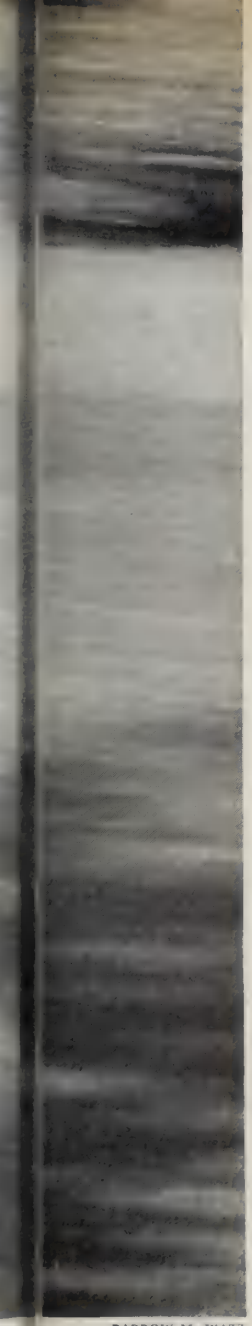
Ride-the-horse swing is sweepstakes winner

110 preschoolers tested three different swings. The push-pull horse won by several lengths

Whooshing through the air on a swing is one of life's great delights. And what can be simpler to make than a swing? All you need is something to sit on, some rope, and a place to hang it.

This flying horse swing is an updated version of an old playground standby: the three-rope, push-pull animal. We had more than a hundred 3- and 4-year-olds at Stanford University's Bing Nursery School try out three swing designs, and the horse won the sweepstakes. The kids found it the most fun to ride and dream on, and teachers liked the way it taught coordination: how to use arms and legs for propulsion.

You can make it in a few hours, and materials—depending on type and grade of wood used—can cost less than $8. We used construction-grade Douglas fir.



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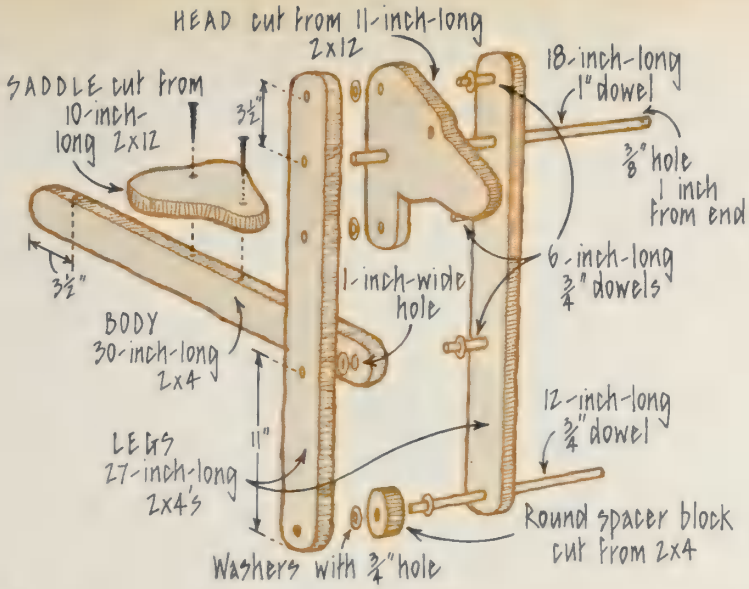

Flying horse swing . . . what you'll need, how to build

Head and legs of the front part pivot on a dowel through an oversize hole in the body part. Washers on dowels keep adjacent parts evenly spaced, and they protect the wood from rubbing at the pivot point (see sketch).

You'll need 8 feet of 2 by 4, 2 feet of 2 by 12, 30 inches of ¾-inch dowel, 18 inches of 1-inch dowel, eight washers with ¾-inch holes, 2-inch-long finishing nails, three 2½-inch woodscrews, waterproof glue, and ⅜-inch rope. From the 2 by 4, cut out legs and body; round ends. Also cut out round spacer block. Cut out head and saddle from the 2 by 12.

Position head and bottom spacer block between legs, then clamp them together. Drill ¾-inch holes through all thicknesses at head, pivot point, and spacer. Next, drill 1-inch holes for handle and through body at pivot point. Sand each part, rounding all edges.

From the ¾-inch dowel, cut three pieces each about 6 inches long, and one 12 inches long for the footrest. Put them into the holes on one leg piece. Slide a washer over each dowel; then put on the head, body, and spacer; add the last four washers; and finally position the other leg.

Make sure that the body pivots freely before locking the short dowels into position with glue and finishing nails driven into them through the front of the leg. (Drill a pilot hole to prevent splitting.) Trim off excess dowel and sand down. Push the 1-inch dowel through hole for it in the head, center it and the footrest, and lock into place with finishing nails.

Screw and glue the saddle into position, adjusting its position to the length of the child's legs. Drill ⅜-inch holes for rope in handle and body, and seal the wood with several coats of clear wood preservative.

For safety as well as looks, round all pieces with a saber saw, band saw, or coping saw. In addition, you'll need an electric drill and two 5-inch C-clamps.

Hang the swing with ⅜-inch rope through holes drilled in the dowel handles and in the back part. (If you use synthetic-base rope, you can stop the ends from fraying by melting them with a match.) Place it where there's lots of room—not only does the horse go back and forth, but a vigorous swinger can get it to go slightly from side to side, as well. □

Sturdy enough *for a grownup to test-ride, the swing hangs from three points for stability*

STEVE W. MARLEY

Kicking off *Castroville's Artichoke Festival is an exuberant parade down the center of town*

Possibly puckering up *in practice for the watermelon seed spitting contest, fairgoer in Arvada, Colorado, samples the local produce*

BARRY STAVER

Harvest hoopla

All over the West, early July all the way to October. Grape stomping, seed spitting, fun running, cake baking, music making. And usually, it's free

ED KASHI

Convertible coupe *turns out for raisin festival parade in Kerman, California*

RICHARD AUDSLEY

The big pear *contest is a tradition at Courtland, where entries are weighed in at the giant pear booth*

Grape stomp *in Lodi is just for fun; later you can do some serious wine tasting*

Every summer, sleepy Western farm towns mark the end of a year's growing season with a rollicking celebration in honor of their mainstay crop. Thus Courtland, California, pays homage to the Bartlett with its July Pear Fair, while Shelley, Idaho, praises the potato on Spud Day in September. Apples, garlic, cantaloupe, corn, raisins, and more—all get special tribute.

You'll find parades, games and contests, and booths where you can sample or buy the celebrated food. Many festivals offer other diversions, including sack races, sheep dog trials, hot-air balloon shows, running events. Just getting there—on a leisurely drive through the countryside—can be part of the fun.

Here we give details on 21 summertime fairs in Western communities, from the self-proclaimed cranberry capital of Bandon, Oregon, to the so-called garlic capital of Gilroy, California. All welcome anyone who wants to join the merrymaking, and admission is free except where noted.

California

Ceres Peach Harvest Festival. July 17 to 19. Peach booths each day, barbecue July 18 and 19 from 4 to 7 P.M., parade July 19 at 10 A.M. Held in Smyrna Park at Fowler and Moffett streets. Hours: 4 to 10 Thursday and Friday, noon to 11 Saturday. Ceres is near Modesto.

Santa Paula Citrus Festival. July 18 to 20. Food booths, games, and carnival daily, bicycle race July 19 at 8 A.M., fun run and parade July 19 at 10. Held in Civic Center Park on 10th Street. Hours: 4 to 11 Friday, 11 to 11 Saturday, 11 to 4 Sunday.

Firebaugh Cantaloupe Roundup. July 24 to 27. Melon tossing, horseshoe pitching, and tractor-pull contests on July 26; parade on July 27 at 11 A.M. starting on P Street; carnival each night. Held at Andrew Firebaugh Park on Q Street. Hours: 4 to midnight Thursday and Friday, 11 A.M. to midnight Saturday and Sunday. Firebaugh is west of Fresno.

Courtland Pear Fair. July 27. Half-mile and 10-mile fun runs at 7:30 and 8 A.M., parade at noon, pear "Olympics" and pie eating contests at 3, mariachi band at 4:30, square dance at 6:30. Held at Bates schoolyard. Hours: 10 to 8. Courtland is south of Sacramento.

La Habra Corn Festival. August 1 and 2. Carnival rides, games, and corn booths each day; parade on August 2 at 10 A.M. Held in El Centro Park. Hours: 6 P.M. to midnight Friday, noon to 11:30 P.M. Saturday. La Habra is near Anaheim.

Gilroy Garlic Festival. August 2 and 3. Over 100 booths with crafts and garlic displays, dishes, garlic field and processing plant tours; entertainment; garlic topping contests. Take Gavilan exit from U.S. 101 to Santa Theresa Avenue and follow signs. Hours: 10 to 7 daily. Admission is $3 for adults, $1 for seniors, youths 6 to 12.

Sebastopol Gravenstein Apple Fair. August 9 and 10. Country folk bands, barbecue at 11 A.M. both days, hot-air balloon demonstrations, apple booths. Held in Ragle Park on Ragle Road. Hours: 10 to 6 daily. Admission is $1.50, under 12 75 cents. Sebastopol is near Santa Rosa.

Kerman Raisin Festival. September 13 to 14. Parade Saturday at 10, food and crafts booths, watermelon eating and greased pig contests. Held at Kerckhoff Park at Madera

JOHN HARDING

Baking contests *and recipe trading are often part of the fun. You can usually buy or bid for the winners*

and G streets, 10 to midnight. Kerman is just west of Fresno.

Castroville Artichoke Festival. September 6 and 7. Saturday a 10-kilometer footrace at 10; Sunday a parade at 11 plus food and crafts booths and music from noon to 5 along Merritt Street.

Lodi Grape Festival. September 18 to 21. Grape booths and murals, circus acts, carnival rides, wine tasting; queen coronation at 8 P.M. on September 18, grape stomp 4 P.M. September 20, parade 1 P.M. September 21. Held at fairgrounds on E. Lockeford Street. Hours: 4 to 11 Thursday, 2 to midnight Friday, 11 A.M. to midnight Saturday, 11 to 10 Sunday. Admission is $2 for adults, $1 for youths.

Mendocino Apple Show in Boonville. September 26 to 28. Sheep dog trials September 28 at 10 A.M., parade at noon; apple pie booth and apple displays each day. Held at Boonville Fairgrounds on State Highway 128. Hours: 10 to 5 daily. Admission is $3 for adults, $1 under 17.

Dinuba Raisin Festival. September 26 and 27. Baking contest Friday at 7, other events Saturday: parade at 10 A.M., arts and crafts booths, food booths from noon on, 6-mile fun run at 6:30 A.M. Held at El Monte Park on El Monte Way. Hours: 10 to 6. Dinuba is southeast of Fresno.

Sunny Hills (San Rafael) Grape Festival. October 4. Handicrafts, grape booth, live music, wine tasting all day, hot-air balloon show. Held at Northgate Mall off U.S. 101 (take the Terra Linda exit). Hours: 10 to 4.

And two towns have pumpkin festivals with baked goods, carving contests, arts and crafts: **Half Moon Bay** (October 18 and 19) and **Manteca** (October 16 to 19), both from noon to dusk.

GREGG MANCUSO

Indispensable garlic *is lauded in Gilroy, where you can buy braids, sample dishes*

Colorado

Paonia Cherry Festival. July 4 to 6. Cherry Day queen crowned on July 4, carnival and cherry booths each day, rodeo July 6 in the rodeo grounds at 9 A.M. Held in Paonia City Park: 7 A.M. to 9:30 P.M. Friday, 9 to 3 Saturday, 10 to 4 Sunday. Paonia is southeast of Grand Junction.

Rocky Ford Watermelon Days. August 19 to 24. Children's carnival all day August 20, parade August 22 at 10 A.M., watermelon seed spitting contest August 23 at 10 A.M., free watermelons at 11 A.M. on August 23. Held at Arkansas Valley Fairgrounds. Hours: 8 to midnight daily. Rocky Ford is east of Pueblo.

Arvada (Denver) Wheat Harvest Festival. September 3 to 6. Country store produce and food booths, art show, children's carnival ongoing; Saturday at 10 parade, watermelon seed spitting and tug-of-war contests. Events spread over downtown. Hours 6 to 10 weekdays, 10 to 10 Saturday.

Idaho

Shelley Spud Day. September 20. Parade down Main Street at 11, games and horseshoe pitching noon to 4, spud picking noon to 3, free baked potatoes after parade. Held at Shelley Park. Hours: 11 to 4. Shelley is near Idaho Falls.

Oregon

Bandon Cranberry Festival. September 26 to 28. Parade on September 27 down Alleghany Street at 10 A.M., barbecue at City Park at 11, 7-mile run at 5 at Bullards Beach State Park; fiddlers' jam session September 28 at 1 in Ocean Crest Gym; food booths each day. Hours: 10 to 5 daily.

Merrill Potato Festival. October 18. Parade and 5-mile fun run at 11, barbecue at noon, arts and crafts booths, potato booth. Tour of harvest country available. Most events at Merrill Junior High School from 11 to 5. Merrill is near Klamath Falls.

Utah

Brigham City Peach Days. September 4 to 6. Peach queen pageant at Box Elder High School on September 4 and 5 at 7 P.M. (admission to be set), parade downtown on September 6 at 11 A.M., carnival and arts and crafts displays each day downtown, fresh peaches for sale. Hours: noon to midnight.

Washington

Bingen Huckleberry Festival. August 22 to 24. Pancake breakfast August 23 at 7 A.M. in the White Salmon Fire Hall, loggers' festival, continuous entertainment, some berry stands (fields 20 miles out of town). Hours: 8 to midnight Friday, noon to midnight Saturday, noon to 10 Sunday. Bingen is near Hood River, Oregon. □

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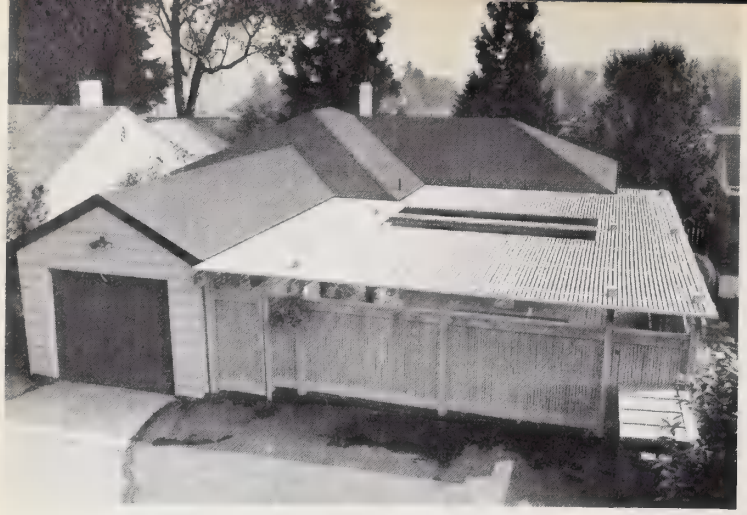

Enclosed patio *in back garden offers lots of privacy from uphill neighbors, makes it easy to have a lazy breakfast outside. Dining deck is right next to kitchen door. Two slots cut in overhead lath let in some direct light*

DON NORMARK

Lath around and overhead turns entire back garden into patio room, tub area

Semisunken hot tub *has its own deck. Railroad tie wall holds back cut-and-filled slope*

Houses stacked up on a hillside often share the same plus and minus when it comes to the view. To the front, they usually have a common scenic vista, but to the back, homes farther up the slope look down on the ones below.

In addition to that problem, the back garden at Brad and Carol Adams' house in Seattle faced west, and summer sun made it almost useless on a bright afternoon and evening. What the owners designed, and built with the help of their associate John Quimby, turned the area into a private, shady outdoor patio room they use from breakfast in the morning to soaking in the tub at night.

First they leveled and filled their sloping back yard, creating a flatter area for parking and the patio. They also dug a recess to partially sink their hot tub. Next, they erected 4-by-4 pressure-treated fence posts around the perimeter of the patio, along with two tall supporting posts for the canopy. Then came a 2½-inch-deep bed of crushed rock, followed by an equally thick bed of sand. Finally, paving bricks were set in place.

The fence and support posts were faced with fir 1 by 4's. The horizontal supports are pairs of 2 by 6's and 2 by 8's, lag screwed into the house and the vertical posts (a much sturdier support system than was necessary, but architecturally handsome). Slats for the fence are rough-sawn 1 by 2's spaced ¼ inch apart; on the canopy roof, they're spaced 2 inches apart. All wood was stained a light ash to match the house. □

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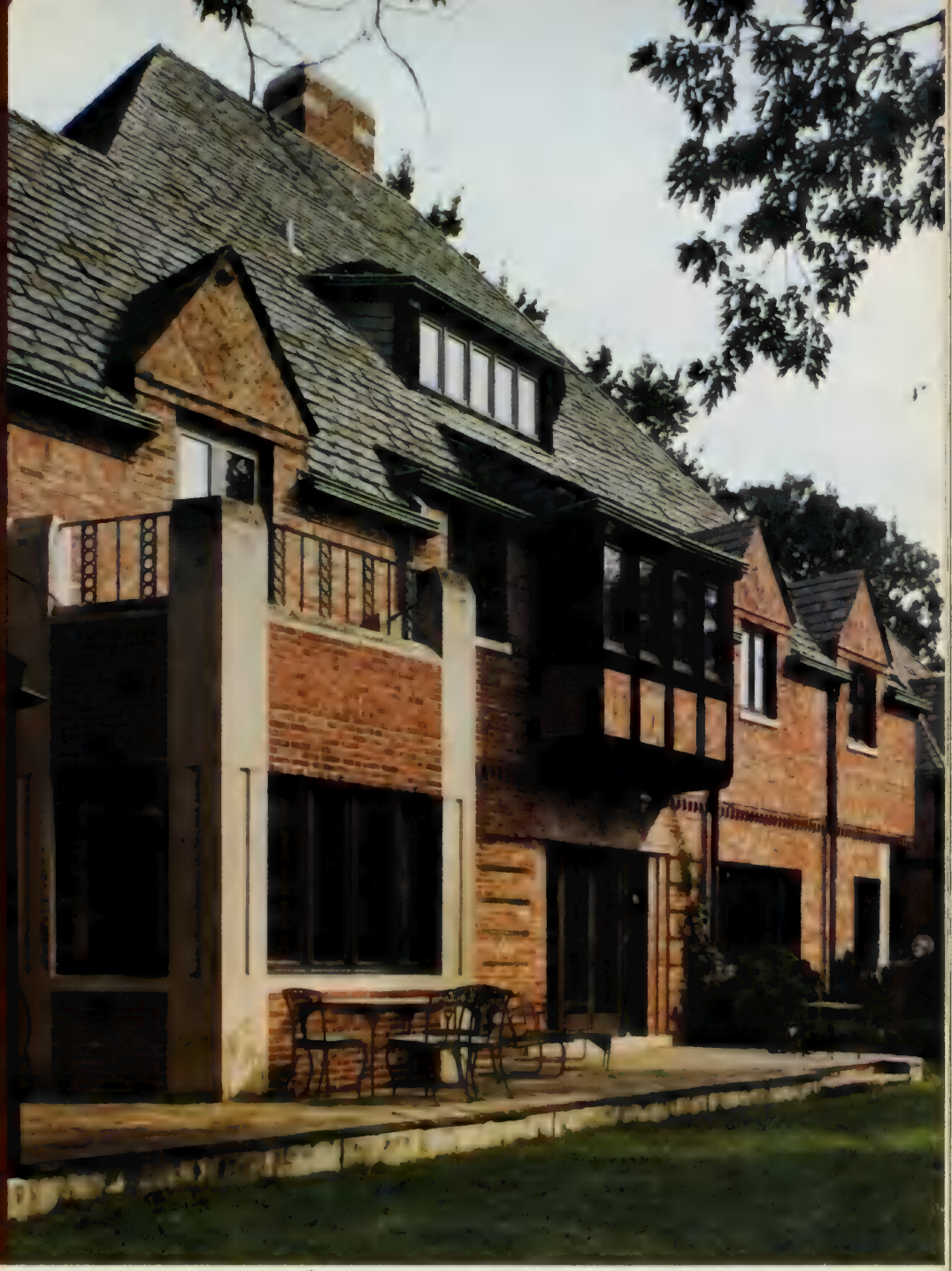

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DON NORMARK

Multifunction island *lets two cooks work together easily around it; most food preparation goes on here*

Pass-through *to dining room allows interaction of cook and guests, who catch preview of Italian meal to come*

Kitchen in the round is a stage for a gifted cook showoff

"Give me a stage where I can show off my cooking," was Peter DiCurti's request to architect Warren Edminster of Tucson. Mr. DiCurti, an accomplished cook with a flair for Italian dishes, wanted to turn his closed-off, U-shaped kitchen into one that was efficient and functional for two cooks, yet open so that guests could kibitz as he and his wife display their culinary talents.

An interesting solution evolved as architect and owners pooled their ideas: to use space from the old kitchen, breakfast room, and laundry room for an unconventional but highly workable round kitchen where all activity centers around the cook. Pass-throughs to the family room and dining room allow cooks to see out and guests to see in.

Stage center, where most food preparation goes on, is a step-saving island with three two-burner cooktops, a maple butcher-block top with a lazy Susan in the center for spices and utensils, and ample storage below for pots, trays, and small appliances. A swing-up typewriter shelf salvaged from an old desk holds the food processor and its accessories

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DON NORMARK

Stuffed breast of veal *browns in pot on top of stove before going into oven. Hood vents odors, also has lighting*

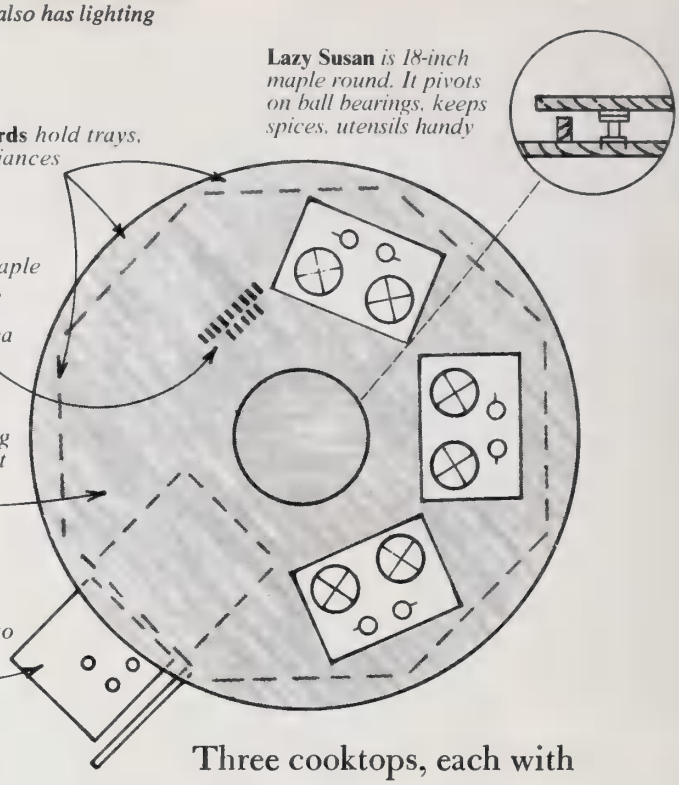
Lazy Susan *is 18-inch maple round. It pivots on ball bearings, keeps spices, utensils handy*

Storage cupboards *hold trays, pots, small appliances*

Knife slots *in maple top keep knives, scissors in place by chopping area*

Island top *for chopping, rolling dough is a 6-foot butcher-block round*

Food processor *on spring shelf pushes down into cupboard when not in use*



Three cooktops, each with two gas burners, keep all the cooking right next to the preparation areas

out of sight in a cabinet below until needed. Vertical dowels screwed to the shelf surface keep the appliance in place.

Around the perimeter of the kitchen, separate areas are set aside for menu planning, cleanup, and buffet and beverage serving. Mrs. DiCurti finds the ample counter space perfect for buffets inside the kitchen. "Guests usually end up in here anyway," she says. □

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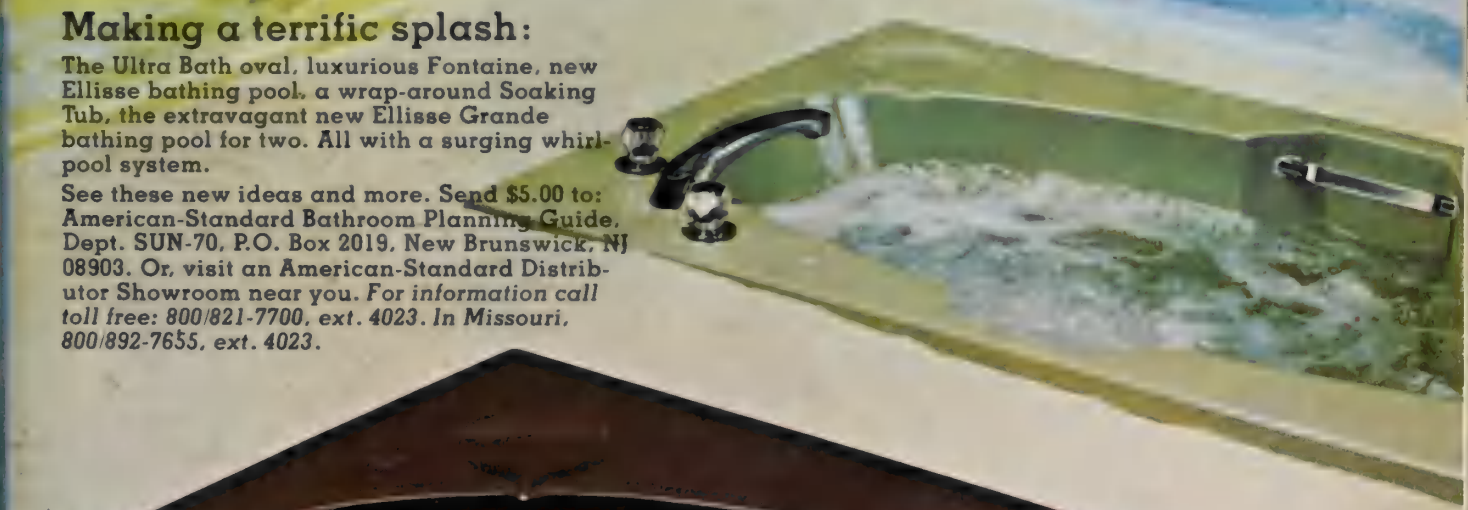

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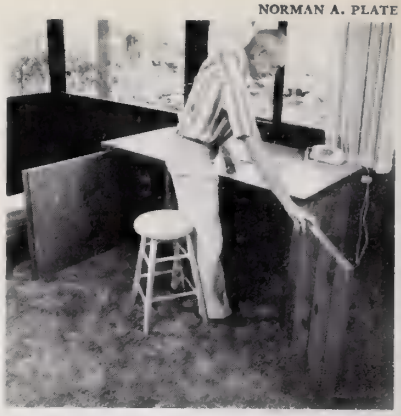
NORMAN A. PLATE



Fold out *panel that covers file drawer at left and desk's end panel at right. Then stacked-up tabletop slides out on supports, doubling work area*

When necessary they can double the work area

The usual-size desk is sufficient most of the time for Don and Fil Drukey of Design Format in Malibu, California. But occasionally, when they need much more work surface for architectural plans, they can double the desk-top area.

The answer is two plastic laminate-faced tops; when more work space is needed, the top one slides over onto well-disguised supports.

The desk frame is ¾-inch plywood, its facing (on the sides) ¾-inch resawn cedar paneling. The supports—a door hiding a file cabinet on the left and a section of the end panel on the right—swing out on full-length piano hinges.

There's open storage between the knee hole and the file cabinet; a hidden cabinet is at back of the knee hole.

Closed, the desk top is 34 by 64 inches. Open, it's 67⅝ inches deep. □

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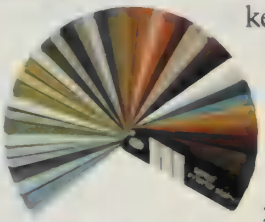

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DARROW M. WATT

Well-illuminated niche *puts model ships on display. New wall was built out 17½ inches to provide the display case recess*

For room drama: niche it and light it

This artlessly impressive display case holds a small collection of model ships. Set into a wall in the family room in William and Jan Low's house in Novato, California, the 9-foot-long, 4-foot-high, and 17½-inch-deep niche is the room's focal point.

Drawing on his background in store design, architect Low combined light and color (deep-sea blue) to give the niche a sense of drama, while inviting viewers to take a closer look. Overhead, a 7-foot-long light box of 2-by-12 fir houses the fluorescent fixtures. White plastic egg-crate grating fitted in the bottom of the box screens the bare tubes from view and diffuses the light. The box screws directly into wall studs.

Beneath the boats toward the front of the niche are two additional fluorescent fixtures, hidden behind a 9-foot-long fir 1 by 4 glued in place at the ends and along one edge.

The two smaller ships, an old French coastal steamer named *L'Hirondelle* and a double-ended sloop, rest on inconspicuous stands. The big red Great Lakes freighter, "a replica of one that used to pass our house on the St. Clair River," is suspended from the plastic grating by nylon fishline. □

Fishline *suspends freighter in center from grating of light box. Fir 1 by 4 hides bottom light fixtures*

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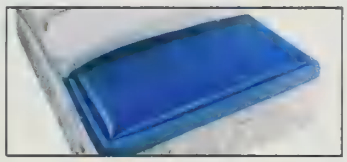

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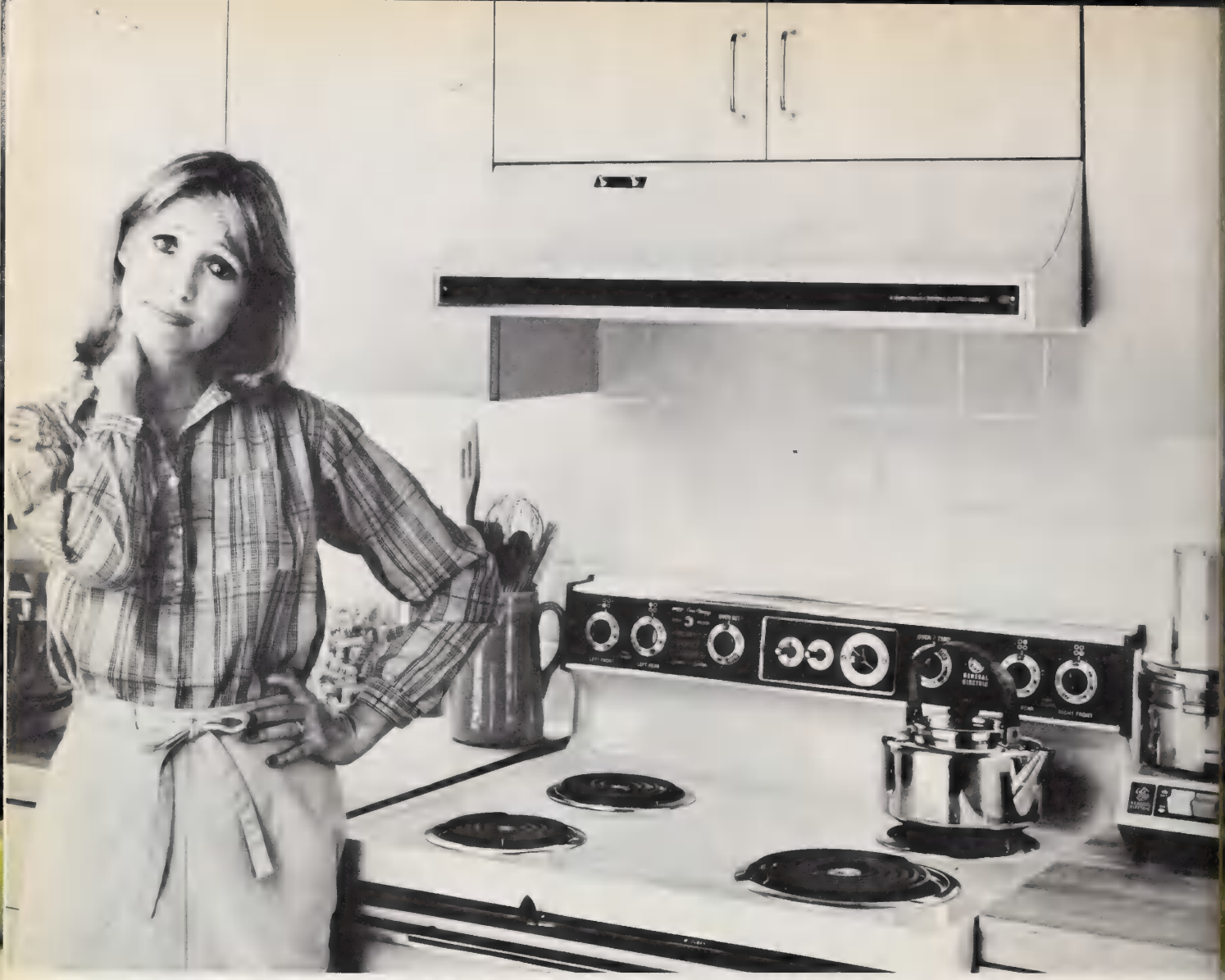

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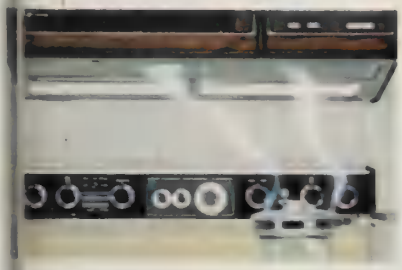

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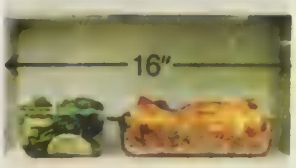

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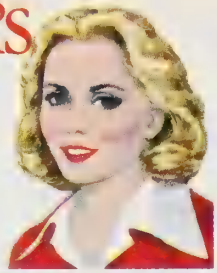
DOLLAR'S WORTH

from Mary Willis



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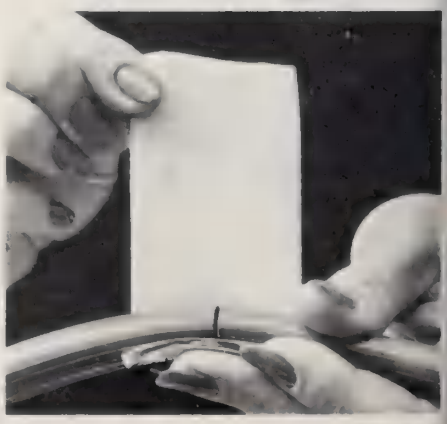
DARROW M. WATT

Moving target *bobs in pool as ring-tossers hurl homemade "quoits" cut from hose*

Splish splash. Making your own ring games

What's there to do in a swimming pool when children have had enough of swimming for a while? You can try making up pool sports. With very simple equipment, it's possible to adapt many popular games for water play. Here are a few ideas to get you started.

Ring-toss is something like quoits or horseshoes. Float a plastic beach ball in



Seal ends *of hose lengths together with waterproof tape to make rings (she's using aluminum tape from a hardware store). For a stronger joint, first insert a short dowel*

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DARROW M. WATT

A sharp eye *and steady hand are needed to pitch tennis balls into rings of hose—especially if pitcher is shoulder-deep in water*

Dolphin-like, *competitor swims underwater through Hula-Hoop course. Weight made from a plastic bottle holds hoop perpendicular to pool bottom*

the pool as your target; make rings from an old lightweight plastic hose. Cut hose lengths to make rings any size you like—the smaller their diameter, the more difficult the game becomes. You toss these rings into the pool and try to encircle the balls, the smaller rings scoring higher points.

Another game uses Hula Hoops, which are indeed still available in toy stores. (You could, alternatively, make giant rings out of hose, but these would be somewhat less sturdy.) Fill an empty bleach bottle with half sand and half water, then close it tightly. With a short piece of twine, tie the bleach-bottle weight to the plastic hoop. When the bottle rests on the bottom of the pool, it will hold the hoop vertically suspended. You can set up one hoop or a course of them—then time each player as he or she swims through.

A third possibility is to use homemade rings as target circles for an aquatic version of marbles. Collect a few old tennis balls—you might want different colors for different players—and make rings of different sizes out of two or three lengths of plastic hose. Players win points for each ball that lands inside a ring, with those in the smallest bull's-eye ring rating highest. □

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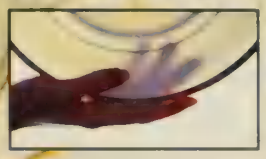

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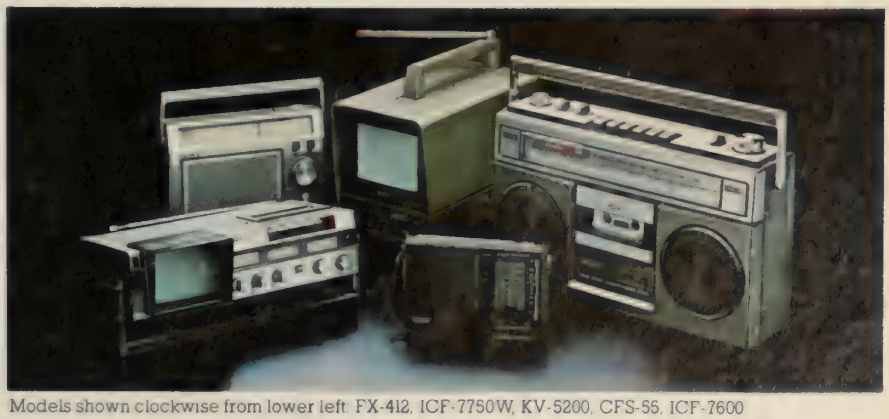
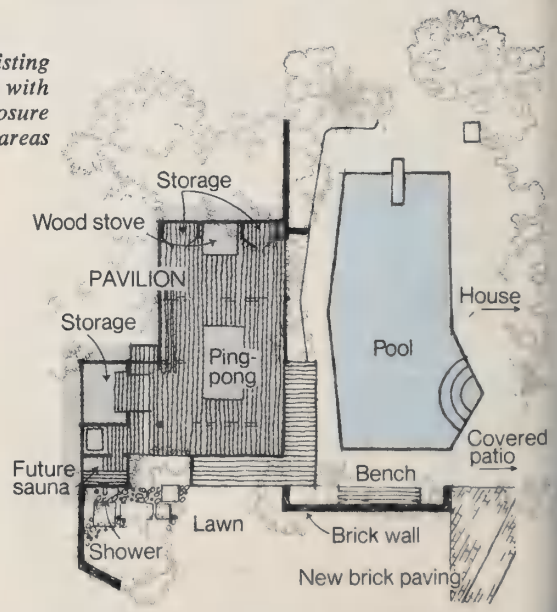


Models shown clockwise from lower left: FX-412, ICF-7750W, KV-5200, CFS-55, ICF-7600

NORMAN A. PLATE

A room of many uses, *pavilion is 20 feet wide, 35 feet long, 12 feet from ground to roof ridge. Flat structure at left holds refrigerator, storage areas, future sauna*

Plan included *relandscaping around existing pool. Brick walls 3 feet high topped with wrought-iron fencing separate enclosure from desert. Gray tones show roofed areas*



Poolside pavilion for parties, ping-pong, overnight guests. Owner-built in Arizona

Two large openings *face pool and house. Canvas curtains snap together so they won't flap in wind. Gabled ends are open*

This garden pavilion is a social center for the Hann family of Scottsdale, Arizona. It was designed by architect James W. Scalise but constructed by David Hann and his sons Peter, Jim, Andrew, and Jon—working weekends through one full summer. Mr. Hann's wife, Leigh, was the group's director, cheerleader, and tireless helper.

Son Andrew told us the pavilion started as a place to put the boys' ping-pong table. "We had it on the old covered patio off the house, but we were forever smashing the ball into the plants and breaking stems and flowers. Mother said it had to go!"

But what they built is much more than a shelter for the ping-pong table. They added a shower for swimmers; a wood-burning stove for chilly evenings; storage closets for garden equipment, games, and furniture; a refrigerator; floor space for dancing; and a roughed-in area for a sauna. The pavilion has ample light for nighttime activities. And canvas curtains can close its open sides for privacy or to keep out the wind.

The family did have some outside assist-

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NORMAN A. PLATE

West-facing opening *behind stove has roll blind. Melaleuca at left will eventually provide more shade*

Shower is concealed *by vertical 2 by 10's angled 45° at top and bottom and by angled top made from a 2 by 8*

ance for certain parts of the construction. Brick work for the walls around the pavilion was done by a masonry contractor, with the Hanns pitching in. Setting the roof trusses and beams in place required additional help from several husky teen-age friends.

How much did the Hanns save, doing most of the work themselves? They didn't keep all cost figures, but estimate they saved almost $10,000 on the total project in 1975. The cost of all materials, including the brick walls and wrought-iron gates and fencing, came to about $13,500.

Ping-pong games are fewer now that the boys are older, but the pavilion's uses continue to expand. Now there are pool parties and dances. And visiting college friends have a place to roll out their sleeping bags. David and Leigh Hann also have a place to have large parties without crowding the house. At times they've entertained as many as 150 guests in the pool pavilion area. □

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NORMAN A. PLATE

Spacious, multilevel deck steps down *from kitchen to ground at rear of house. Built-in benches can seat a crowd*

A deck that says "step down, sit down, take it easy"

Enclosed shed *on floor-level deck stores outdoor furniture. Trellis screens off next-door neighbor*

Before: *Inaccessible back yard was bleak, seldom used. Boxy rear bedroom was removed, new kitchen added*

If back yards can be called forlorn, this one surely qualified. Look at the snapshot on the left, and you can see how much this Berkeley deck addition has accomplished: a once-deserted outdoor space has become a gracious extension of the old house, enjoyable throughout the year.

The new redwood deck, designed by architect Glen W. Jarvis for Susan and Paul Eisenberg, bridges a 4-foot drop from the house's floor level to the ground. By using a variety of stair widths and lengths, he managed the elevation change in a gradual, casual way. One stair, for instance, jaunts around an opening to become a planter. Another turns into a 12-inch-high bench around two sides of the 14- by 18-foot lower deck. Decking is 2 by 6 throughout.

The 10- by 14-foot upper deck, right outside the added kitchen, is reached through wide French doors. Because this deck was to be a primary dining area, the Eisenbergs chose to keep it on the same level as the rest of the house and to shield it from its immediate neighbors with a 6-foot-high lath trellis. A shed abutting the house provides dry storage for patio furniture and tools. □

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Belfort sofa and two chairs $749

Also on sale for [illegible] choice! Karat or Belfort sofa [illegible] matching love seat or two chairs.

TIM HERRON

Source of soft light *in living room, this coffee table can also be used for viewing slides*

Their coffee table is a light table

Photographers who take color slides know the value of a flat source of even illumination to backlight their slides for sorting and viewing. Here is a light table designed by photographer Tim Herron to double as a coffee table.

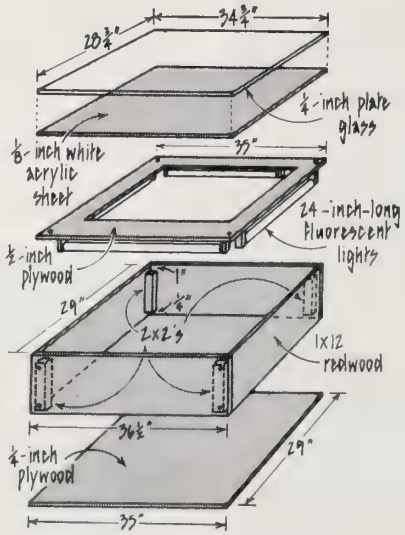
It is simple to build and good-looking enough for a living room. When lighted, it shows off small art objects and is a pleasant low-level light source.

The viewing box's four fluorescent fixtures are wired together in two pairs, which are then wired together; the cord, with on/off switch incorporated, exits at a bottom corner.

Plate glass covers and protects the translucent acrylic plastic. The inside of the box is painted white, and standard 6-inch metal cabinet legs serve as supports. Total cost was about $100 in 1978.

Most light tables are designed with the fluorescent tubes on the bottom facing up. This table has the fixtures facing down. Since the light hitting the various surfaces bounces around the white-painted interior, the result is even illumination without hot spots.

The size of the box ensures that the illumination is just right for choosing those slides that will look best when projected. Too bright a surface can lead you to choose underexposed slides, while too dark a surface can lead you to choose overexposed ones.



Elements *of light table are easy to assemble. Joints are glued, nailed; interior is painted white*

One key to building a light table of professional quality lies in using fluorescent tubes designed for graphic art applications: G.E. Chroma 50 (G.E. #F20T12-C50). These tubes emit light at the proper color temperature (5,000 K). Order them through a light store or electrical supply house. ◻

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"Family Day at our Pittsburg plant is something we all look forward to–especially the children."

Carla Keeler, Maintenance Service Group, Western Division, Dow Chemical U.S.A.

Every couple of years, the Dow plant in Pittsburg, California, hosts a Family Day for all Dow employees and their families.

"It's a fun time for everyone," says Carla Keeler. "The children really enjoy the balloons and clowns, pony rides and cotton candy. Later on, we roll out a picnic lunch and plenty of soft drinks to wash it all down.

"Cable cars are the main attraction. We don't have any hills like our neighbors in San Francisco. But the children don't seem to mind. They get to ride around the plant in style while their parents explain about their jobs and the products Dow makes.

"At the end of the tour, the bravest ones board a cherry-picker for a bird's-eye view of where we work.

"Turning a chemical plant into a kiddies' playground—that could be a problem for some people. But to us, it shows the confidence we have in ourselves and our technology.

"For Dow employees at Pittsburg, Family Day is a very special way of saying, 'We're right at home with the chemistry we make here—and proud of it!'"

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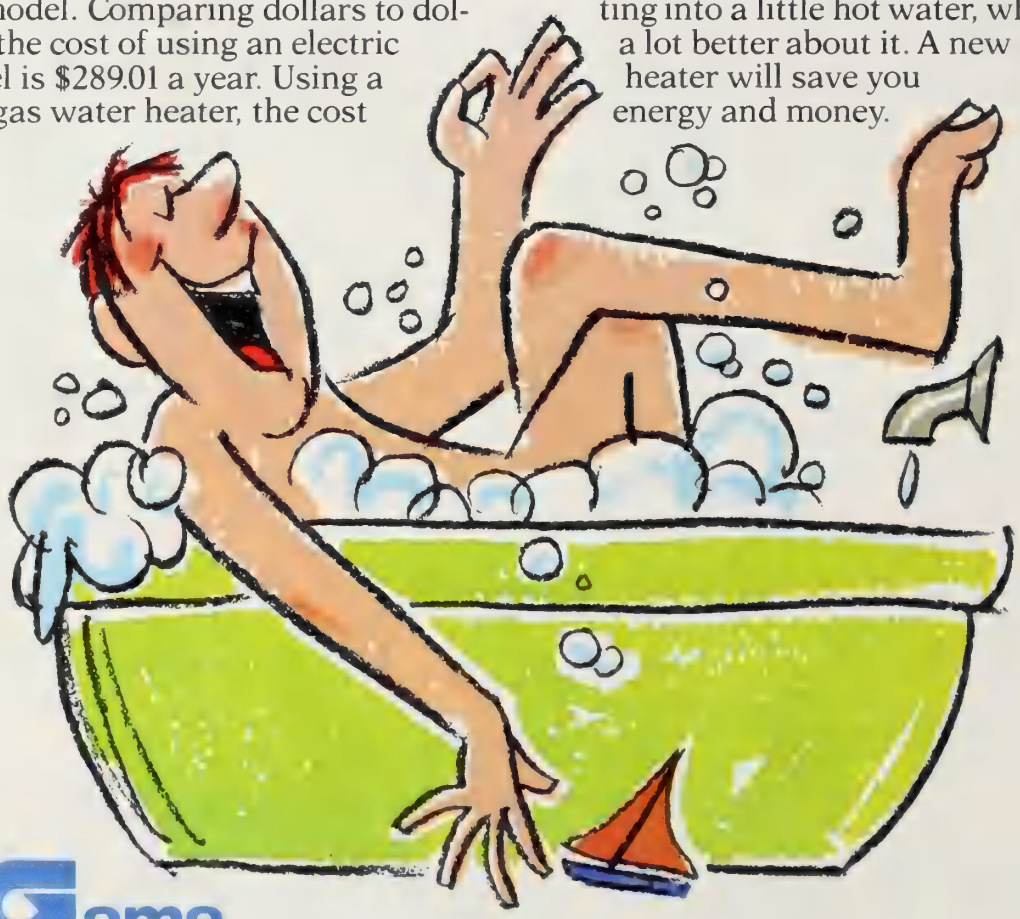

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*Comparisons are based on the average conditions specified in the Department of Energy test procedures as applied to units whose capacity is used predominately in residential applications.

NORMAN A. PLATE

Groove *routed in wall side of stair rail allows secure hand grip*

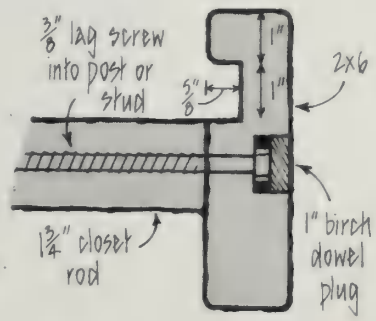
Well-conceived handrail has a finger hold

Thoughtful detailing of a sturdy handrail makes going up and down a steep stairway leading to a remodeled attic less of a chore. A ⅝-inch-deep groove in the wall side of this redwood 2-by-6 rail lets your fingers curl around the top of the railing for a firm grip.

The railing is mounted to the wall studs and a 4-by-4 post at the top of the stairs with countersunk ⅜-inch lag screws that run from the railing and through 1¾-inch mahogany closet rod. Railing edges were rounded with a router and sanded smooth.

All wood was sealed with a glossy marine-grade finish.

Walter Brown of Berkeley designed and built the rail. □



Cross-section *shows countersunk lag screws covered by a short length of hardwood dowel*

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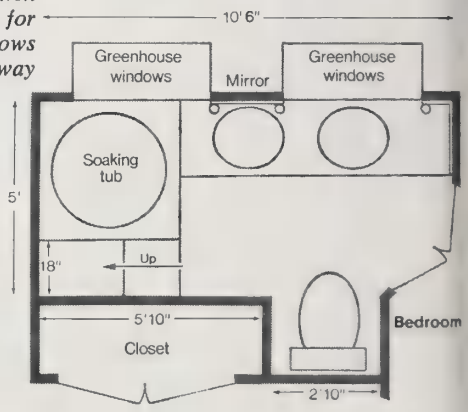
NORMAN A. PLATE

Greenhouse units and mirror *brighten room. Ceiling was removed for more spacious feeling. Diagram shows new windows, alcove, angled doorway*



They pushed out the walls, pushed up the ceiling

A skinny bathroom gained elbow room when owners Diana and Woody Dike of Laguna Beach, California, pushed out the side walls, pushed up the ceiling, and played some visual tricks as well.

After removing the old fixtures, they opened the ceiling to the full height of the roof ridge. On the outside wall, they discarded two windows and widened the openings to receive greenhouse units 44 inches long and 18 inches deep.

On the opposite wall, they poached 2 feet from a hallway for a toilet alcove. A new double door, positioned on the diagonal, gives a wider entry and helps avoid a corridor feeling.

Forgoing a stall shower, the Dikes kept all elements of the room low and horizontal. The new oak-and-tile sink counter wraps around a 3½-foot-square fiberglass soaking tub, entered by stepping up two tile steps. Window height is continued the length of the room by the use of same-height mirrors.

Counter, windows, and mirrors are trimmed with ¾-inch-thick oak; cabinet door and drawer faces are made of oak plywood. □

Oak backsplash *houses new electrical wiring below light-flanked mirrors*

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DON NORMARK

Shake-covered *doors blend with house exterior. They open to reveal small trash storage closet that is easily reached from the kitchen*

Recessed *electric meter has its own niche hidden behind plywood and shake door*

Indoor-outdoor trash closet

Handling garbage is nobody's favorite job. But an efficiently located garbage closet like the one pictured here can at least cut down on the distance you have to carry armloads of rubbish.

This trash closet was designed by architect Neil Wright of Ketchum, Idaho, to be readily accessible from inside and out, yet hidden from casual view. Service people like the arrangement because it is right at the front of the house and the doors are usually left unlocked. The owners like it because it is near the kitchen; the interior doors can be securely bolted while the exterior is open.

The closet itself, 2½ feet wide and 5 feet long, easily accommodates three large garbage cans. Its painted concrete floor mops up quickly. A galvanized metal wainscot keeps wall plaster from chipping if the cans are tossed in carelessly. Rough cedar shakes nailed onto the outside finish the doors.

Wright recessed the electric meter in its own shake-covered cubbyhole to the left of the closet. □

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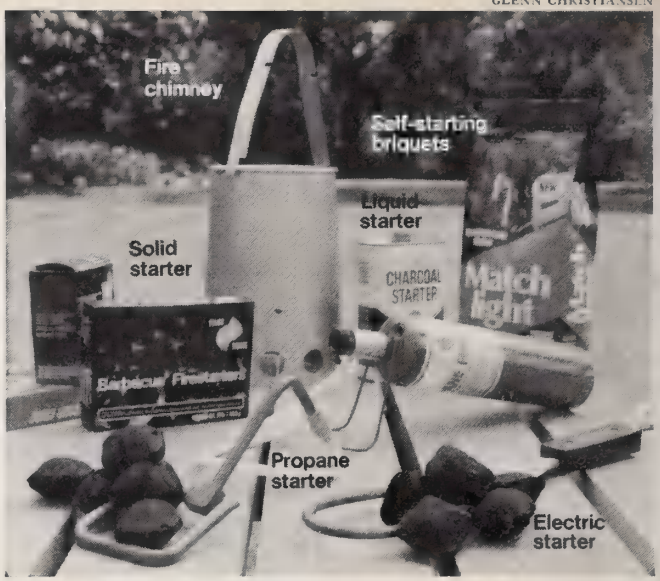
The Changing Western Home®

Six ways—some new—to start a barbecue

GLENN CHRISTIANSEN



Outdoor chefs all have favorite ways of firing up their barbecues.

Solid starter. Relatively new. Place several sticks or packets in with the charcoal and light. Burns without leaving aftertaste in smoke; 75 cents to $1 per box (8 to 16 starts).

Fire chimney. Briquets stack on crumpled newspaper and are ready in 30 minutes; $6.50. (Or make a chimney from a 2-pound coffee can.)

Liquid starter. An old standby; $1.

Self-starting briquets. Just light them. They're more expensive than regular briquets and you can't add more later, but they are ready in only 15 minutes; $1.60 for a 4-pound bag.

Propane starter. New this summer. Stack coals around burner and light. Coals ready in 10 to 15 minutes; $30.

Electric starter. Set coals on it and plug it in for 10 minutes; $5.

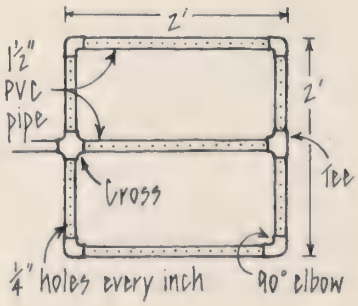
NORMAN A. PLATE

Outdoor showers at home . . . one recycled, one homemade

These showers are for rinsing off before or after you take a dip in the pool or a soak in the spa or hot tub. Both use only the cold water line. But they could also be connected to the hot water source.

The shower head at left was a rare find: it was once used in a factory in France. Now it's set up at poolside in the Carefree, Arizona, garden of James and Ann Dutton. To operate it, you pull and hold the chain. Design: Marcus C. Bollinger of Landscaping by André and George W. Christensen.

The trellis shower at right and in the sketch below is home-fashioned of PVC pipe. (For hot water, use CPVC pipe.) River stones form drain bed. Designer: Mat Laky, Santa Cruz, California.



When is a door not a door?

The answer to the old riddle is, "When it's ajar." The answer you see here is, "When it's a cost-saving window."

In all three of the houses pictured, standard sliding glass doors are used as windows. The result is the largest openable windows at the lowest possible price.

Designer John Matthias of Mill Valley, California, stacked up two sliders to grab more ocean view in the Davenport, California, house shown at left. To increase air flow in the house, the upper door can be opened with a pole.

Spokane architect Moritz Kundig set a sideboard across the second-story dining room "window" you see above at left; it's an effective barrier.

Berkeley architect Peter Behn placed a slider off the upstairs deck to get more light and air into the two-story living room in his house (an AIA-*Sunset* Western Home Award winner). Aluminum cables span the non-entry. The door can be locked from the outside.

A covert operation

A slide-out-of-sight can opener mounted on a pull-out panel helps reduce countertop clutter in this Portland kitchen. The panel, set in a large work island, runs on a heavy-duty drawer glide; its plastic laminate front matches other surfaces. Design was by architect James Oliver.

How did you survive the remodel?

Living in turmoil isn't much fun, but for people involved in extensive remodeling, it seems almost unavoidable. We're interested in any lessons our readers have learned.

How do you wash dishes and shower when the plumbing is out? How do you cope with disappearing laborers, skyrocketing prices, and downright mistakes? Are there ways to control dust and keep animals out? And how do you maintain some tranquillity in the midst of the mess?

After months of cooking on hot plates, Hugh and Ann Stone (above) of Rancho Santa Fe, California, had some thoughts for us. If you do, too, please send them along to Survival Editor, *Sunset Magazine*, Menlo Park, Calif. 94025.

Rail car *stacked with fir goes into cylinder. It will be flooded with preservative, pressurized to force chemicals into wood*

Pressure-treated lumber is here ... resists decay, insects

What is that greenish-colored lumber? It's pressure-treated wood, now being stocked by a growing number of Western lumberyards and home improvement centers.

Pressure-treated wood has been impregnated with chemicals (usually green or brown in color) that deter insects and decay. They give common Western softwoods like fir, pine, spruce, and hemlock the same resistance to termites and fungus that is found naturally in redwood and cedar heartwood.

In the Eastern United States, pressure-treated softwoods have been used for more than 40 years. But until recently in the West, their use was limited to power poles, railroad ties, and mudsills. Today, various grades of dimensional lumber (including 2 by 6's and 4 by 4's) are being treated for use in landscaping projects such as decks, fences, planter

NORMAN A. PLATE

Pressure-treated wood *was used for deck, planters, and trellis. Owner-builder (with son's help): Robert Wright, Fremont, Calif.*

GLENN CHRISTIANSEN

No concrete. *Deck post with block on bottom is being set directly on drain rock; backfill will be tamped around it*

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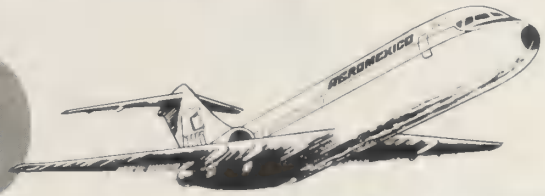

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The Olympia Brewery Tour

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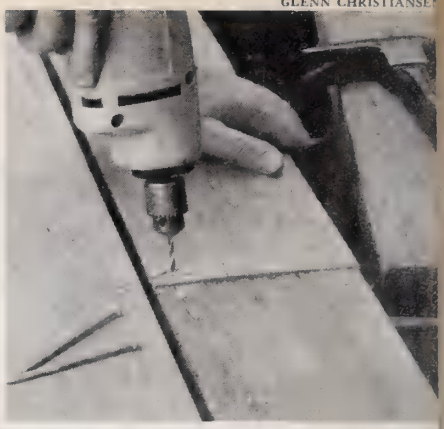
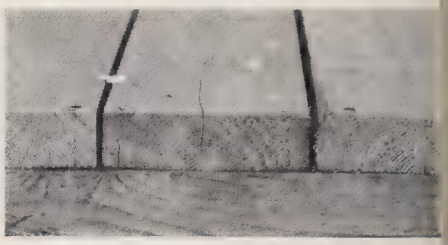


Predrilling *nail holes helps reduce end splitting of pressure-treated wood*



Growth rings *indicate bark-side-up nailing for reduced cupping on decks*

boxes, and retaining walls. Cost is about 15 to 25 percent more than untreated wood of the same kind.

Most pressure-treated lumber has been treated with water-borne salts—chromated copper arsenate (CCA) or ammoniacal copper arsenate (ACA)—forced into the wood under great pressure. Despite their scary names, the chemicals in the wood are safe for normal contact by humans and animals, although burning scraps is not recommended.

Depending on the amount of chemical injected, the wood may be labeled "22, ground contact use," or "L.P. 2, aboveground use."

What's it like to work with?

Treated fir, for instance, cuts and nails much like untreated fir, but the wood seems to be a little harder and splits somewhat more easily. Fir decking is very strong, but it tends to split, cup, and warp more than redwood.

Cupping and warping can be reduced by choosing dry lumber, putting the bark side up, and using two or three 3½-inch (16d) hot-dipped galvanized nails at joist intersections. Splitting can be limited by predrilling nail holes near the board ends. As the chemicals don't completely fill the wood, paint all cut ends with a preservative.

How long will the wood last? "In excess of 50 years," says the U.S. Department of Agriculture.

If you don't like the color, you can paint or stain over it. But left alone, the color will mellow with time. □

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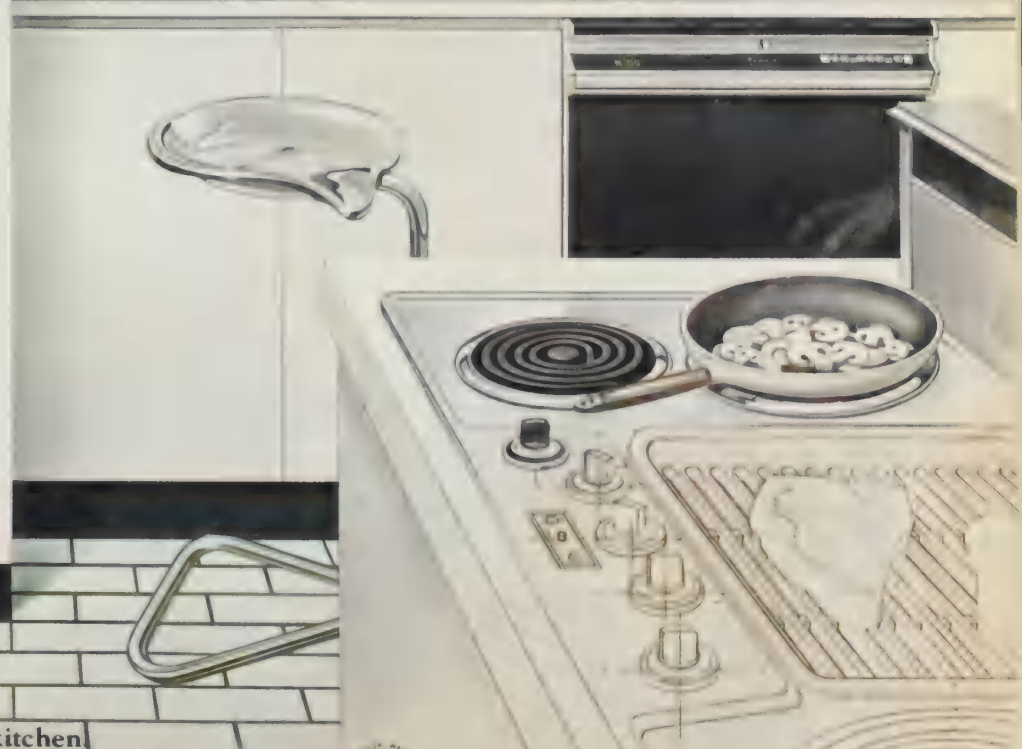

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DARROW M. WATT

Swinging moon gate *when it's open (top). Or (below) two doors slide together and lock for security*

Open: a moon gate. Closed: security

Strong visual impact and down-to-earth practicality are combined in this side-yard gate in Berkeley. Owner Bonnie Burns and builder Jim Acock designed it as a handsome outdoor entrance that could be locked fast in the owner's absence. "I didn't want a closed-in feeling," Bonnie says, "but I did want the security of total enclosure."

Hung on pivot hinges, two doors in the center of the gate swing open in either direction, their curved tops forming the bottom of a moon-shaped cutout. When the gate is locked, two interior panels slide along an overhead metal track screwed to the 4-by-4 header.

The unusual wood sculpture cresting the gate is by Peter Witte, who chain sawed and sanded laminated beams. ◻

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STEVE W. MARLEY

Front door screen, *designed and built by owner, allows summer breezes through while keeping insects out. Vertical trim on outside of door protects screening, ties in with natural wood of house's exterior*

Make your own screen door? Less than $20 each, these nicely match the house

f you've shopped for a screen door ately, you know the selection is limited. Doors cost from $20 to more than $100, epending on their size and whether they re made of wood or aluminum.

One alternative is to make your own creen doors, as David A. Hughes of El errito, California, did. Though it made ood sense economically (each door cost ss than $20), that was not his main reaon; he particularly wanted doors that atched the vertical lines and wooden xtures of his house.

onstruction and installation for each of ese doors took about 3 hours. Mr. ughes used kiln-dried clear heart redood, ¾-inch brass hinges, magnetic atches, and nylon screening.

The double doors at right open onto a very narrow stoop. Each door is a two-panel mitered frame of 1 by 3's glued and nailed at joints (he used waterproof glue and 2-inch finishing nails in predrilled holes) with the screening stapled on the outside. A frame of ¼- by 1⅛-inch lattice held on with ¾-inch brass brads trims the screening.

For the door above, Mr. Hughes glued and nailed together a mitered frame of 1 by 4's. On the inside of this, he stapled the stretched screening. A mitered lattice frame covers the screen edge and staples. Outside, the screen is decorated with five vertical pairs of 1 by 1's nailed to the frame, with each pair separated by 4-inch blocks of 1 by 2. □

Pair *of narrow screen doors makes the most of tight space. Magnetic catches at top and center hold doors closed; wooden pulls attach at point of horizontal bracing*

Sunset's Kitchen Cabinet®

Summer entertaining plans often call for dishes that can be made in advance or at least started ahead in the cool of the morning. All our recipes here were created with that in mind. Serve the avocado dip for appetizers, then turn any leftovers into a salad dressing the next day. The minted potato salad improves on standing, and the savory stuffed steak needs time to marinate before barbecuing. If you assemble the pineapple salad or chili

For an appetizer, serve this avocado dip with crunchy vegetables and chips

Avocado Vegetable Dip

Crunchy vegetables combine with smooth avocados in this zippy dip; thin it with milk to serve as a salad dressing.

- 2 large ripe avocados
- 2 tablespoons lime or lemon juice
- 1 package (.6 oz.) Italian or Caesar salad dressing mix
- ½ cup sour cream
- 1 carrot, shredded
- 2 green onions and tops, finely chopped
- ½ cup *each* finely chopped raw broccoli, cauliflower, and celery
- ¼ teaspoon liquid hot pepper seasoning

Peel, pit, and mash the avocados. Mix in the lime juice, then sprinkle in the dry dressing mix and stir to blend. Also stir in the sour cream, carrot, green onions, broccoli, cauliflower, celery, and pepper seasoning. Cover and chill at least 2 hours or as long as overnight. Makes 4 cups.—*D. M., Anchorage.*

For a dip, serve with tortilla chips and a colorful assortment of crisp celery or carrot sticks, zucchini slices, small whole mushrooms, or cherry tomatoes.

For a salad dressing, thin each cup of dip by stirring in 6 to 8 tablespoons of milk. Spoon dressing over your favorite salad and toss to blend.

Fresh mint and lemon juice give this potato salad a Middle Eastern flavor

Minted Potato Salad

Pour the dressing over the potatoes while still warm so they'll absorb all the flavors.

- 4 pounds (about 10 medium-size) white new potatoes
- Boiling water
- ½ cup thinly sliced green onion
- 1 clove garlic, minced or pressed
- 6 tablespoons lemon juice
- ½ cup olive oil or salad oil
- 3 tablespoons chopped fresh mint or 3 tablespoons dried mint
- ½ teaspoon *each* sugar and pepper
- 2 teaspoons salt
- About 1 cup thinly sliced radishes

Cook the potatoes in boiling water until tender when pierced, about 30 minutes. Meanwhile, for the dressing, stir together the green onion, garlic, lemon juice, oil, mint, sugar, pepper, and salt.

When potatoes are cooked, drain and let stand just until cool enough to handle. Then peel and cut into ½-inch cubes. Pour the dressing over the still-warm potatoes and mix gently to coat evenly. Cover and chill the salad at least 4 hours or overnight; stir gently several times.

About 45 minutes before serving, add radish slices and stir salad gently. Let stand at room temperature until time to serve. Makes 6 to 8 servings.—*E. D., Saugus, Calif.*

Spoon vegetable stuffing inside steak pocket; skewer closed, then barbecue

Vegetable-stuffed Barbecued Steak

Each slice of steak has a generous portion of savory vegetable stuffing.

- 3 pounds round steak, 2 inches thick
- Garlic marinade (recipe follows)
- 1 stalk celery, chopped
- 1 medium-size onion, chopped
- ½ pound mushrooms, sliced
- ½ cup (¼ lb.) butter or margarine
- 1 teaspoon thyme leaves
- ½ teaspoon oregano leaves
- 1½ cups croutons, slightly crushed

Cut a large pocket in the steak. Prepare the marinade and pour over steak; cover and chill 4 to 8 hours.

For the stuffing, sauté the celery, onion, and mushrooms in the butter until onion is limp. Stir in thyme, oregano, and croutons. Lift steak from marinade and stuff pocket with mushroom mixture; skewer it closed.

Place steak on a greased grill 4 to 6 inches above a solid bed of glowing coals. Cook, turning once and basting with marinade, for about 15 minutes on a side for rare, or until done to your liking. Cut slices ½ inch thick. Serves 6.—*O. D., Lewiston, Idaho.*

Garlic marinade. Mix ½ cup salad oil, ¼ cup *each* red wine vinegar and lemon juice, 1 tablespoon instant minced onion, 2 cloves garlic (minced or pressed), and ½ teaspoon *each* salt and pepper.

rice casserole ahead, they can be ready to serve with little effort.

Send time-saving recipes you'd like to share to *Sunset Magazine*, Menlo Park, Calif. 94025. We pay $25 for each recipe published.

July ideas: vegetable-stuffed steak, salad in pineapple, casserole in layers

Pineapple Chicken Supper Salad

Assemble this whole-meal salad ahead; serve in pineapple shells.

- 1 large (4 lbs.) pineapple
- 2 cups cooked chicken or turkey torn in bite-size pieces
- 1 cup thinly sliced celery
- ⅛ pound fresh edible pod peas
- Ginger-soy dressing (recipe follows)
- ½ basket cherry tomatoes, halved
- 1 tablespoon toasted sesame seeds

Cut the pineapple in half lengthwise. Cut out the fruit, leaving a ½-inch-thick shell. Cube the fruit, discarding the core.

In a large bowl, combine the pineapple cubes, chicken, celery, and pod peas. Prepare dressing and pour over chicken mixture; stir gently to blend. Cover and chill up to 8 hours. Also wrap and chill the pineapple shells.

To serve, gently mix in the cherry tomato halves. Pile mixture back into pineapple shells; sprinkle with sesame seeds. Makes about 4 servings.—*L. A., Oakland.*

Ginger-soy dressing. In a small bowl, stir together ⅓ cup mayonnaise, 1 tablespoon *each* soy sauce and white wine vinegar, 2 teaspoons dry mustard, 2 to 3 teaspoons chopped candied ginger, 1 clove garlic (pressed), and 2 green onions, sliced.

Chunks of chicken, pineapple, pod peas, and tomatoes mix in ginger dressing

Layered Chili Rice Casserole

There's enough protein in this rice casserole to serve it as a meatless supper entrée.

- 1 large onion, chopped
- 1 clove garlic, minced or pressed
- 2 tablespoons butter or margarine
- ¼ teaspoon ground cumin
- 3 cups cooked rice
- 5 eggs, beaten
- 1 jar (15½ oz.) spaghetti sauce
- 2 cans (7 oz. *each*) whole green chilies
- 3 cups shredded jack cheese

In a small frying pan, sauté the onion and garlic in the butter until limp. Remove from heat and stir in the cumin, then mix with the rice and beaten eggs, blending well.

Pour half the spaghetti sauce into a shallow 3-quart casserole or 9- by 13-inch baking pan. Top with half the rice mixture and spread to cover pan bottom. Cut chilies into wide strips; discard seeds if desired. Arrange half the chilies on top; sprinkle with half the cheese. Repeat layers with remaining sauce, rice, chilies, and cheese. Cover and chill if made ahead. Bake, uncovered, in a 375° oven for 25 minutes (35 minutes if cold) or until hot throughout. Let stand 10 minutes; cut into squares. Serves 6 to 8.—*V. G., La Mirada, Calif.*

Green chilies, rice, cheese, and sauce are layered in this savory casserole

Watermelon Chiffon Pie

This light and airy watermelon pie makes a refreshing dessert.

- About 3½ pounds ripe watermelon
- ⅓ cup sugar
- ⅛ teaspoon salt
- 1 envelope unflavored gelatin
- 2 teaspoons lemon juice
- 2 egg whites
- ½ cup whipping cream
- 9-inch graham cracker crust, homemade or purchased
- Watermelon balls for garnish

Discard rind and seeds. Cut melon into cubes; whirl in a blender or food processor until smooth. Pour through a fine wire strainer; discard pulp. You should have 1½ cups juice.

Pour melon juice into a saucepan and stir in the sugar and salt. Sprinkle in the gelatin and let stand about 5 minutes to soften. Stir over medium heat until gelatin and sugar dissolve, then stir in the lemon juice. Cover and refrigerate until the mixture mounds slightly when dropped from a spoon, about 1 hour.

Beat egg whites until stiff; fold in melon mixture. Also beat cream until stiff and fold into melon mixture. Spoon into crust. Cover and chill until firm, at least 6 hours. Garnish pie with watermelon balls. Serves 6 to 8.—*C. C., Inglewood, Calif.*

Ripe watermelon balls decorate a pink chiffon pie with graham cracker crust

Taco burgers *Cradle a beef burger in a warm corn tortilla with refried beans. Add an avocado crescent, drizzle on taco sauce, and pass the napkins*

Lamb burgers *Curry-seasoned patties of grilled lamb slip into pocket bread. Tuck in cucumber, chutney, yogurt*

Venture burgers

Change the meat, change the packaging, add a foreign accent

Everybody likes burgers, juicy and hot off the grill. Ground beef patties are, of course, the established favorite. But other ground meats such as lamb, pork, and sausage are available in most markets, often at lower prices. These are just as easy to prepare, and they can challenge you to create some delicious variations on a theme.

Here are four variations of our own—each with a foreign accent.

To barbecue ground meat, place the patty on a lightly greased grill 4 to 6 inches above a solid bed of glowing coals. When meat is done, season with salt and pepper to taste.

Taco Burgers

Combine 1 pound lean ground beef, 1 small onion (chopped), ¼ cup fine dry

Mo Shu burgers

This is a Peking-style burrito. Start with a flour tortilla spread with hoisin sauce. Place a juicy pork log at one side, add green onion, bean sprouts, and coriander. Fold tortilla edge over meat, then fold in the sides, roll up, and eat

DARROW M. WATT

Sausage burgers

A toasted slice of French bread holds barbecued sausage. Help yourself to onion, peppers, artichokes, mozzarella

bread crumbs, 1 egg, 1 teaspoon Worcestershire, ⅓ cup diced green chilies, and ¾ teaspoon ground cumin. Shape into 6 rectangular patties, each about ⅜ inch thick. Grill according to previous directions, turning to brown both sides, until meat looks done to your liking when slashed, about 6 to 8 minutes total.

Dampen 6 corn tortillas, stack, and wrap in heavy foil. Place at side of grill to heat, turning over to heat evenly.

Set out the following condiments, each in a separate container: canned refried beans, heated; sliced tomatoes; avocado slices; prepared taco sauce.

To serve, spread some beans on a tortilla, then place meat, tomato, and avocado slices on one side. Drizzle with taco sauce and fold over to eat out of hand. Makes 6 servings.

Lamb Pocket Burgers

Combine 1 pound lean ground lamb, 1 small onion (chopped), ¼ cup fine dry bread crumbs, ⅓ cup finely snipped dried apricots, 1 egg, and 2 teaspoons curry powder. Shape into 6 oblong patties, each 3 to 4 inches long. Grill according to previous directions, turning to brown both sides, until done to your liking when slashed, about 10 minutes total. Cut 3 pocket breads in half. Wrap in heavy foil and heat at the side of the grill if desired.

Set out the following condiments, each in a separate container: chopped Major Grey's chutney, unflavored yogurt, sliced cucumbers.

To serve, place each patty in a piece of pocket bread and top with your choice of condiments. Makes 6 servings.

Mo Shu Burgers

Combine 1 pound lean ground pork; 1 small onion (chopped); ¼ cup fine dry bread crumbs; 1 egg; ½ cup finely chopped water chestnuts, jicama, or celery; 1 clove garlic (minced or pressed); 2 tablespoons soy sauce; and ½ teaspoon ground ginger. Shape into 8 equal logs, each about 3 inches long. Grill according to previous directions, turning to brown evenly, until meat in center is no longer pink when slashed, 12 to 14 minutes.

Dampen 8 flour tortillas, stack, and wrap in heavy foil. Warm at the side of the grill, turning over to heat evenly.

Set out the following condiments, each in a separate container: hoisin sauce, green onions (cut in matchstick-size pieces), bean sprouts, fresh coriander.

To serve, spread some hoisin on a tortilla. Place a pork log near the lower edge and top with some onion, bean sprouts, and coriander. Fold tortilla edge up over filling; then fold in sides and roll up to enclose meat and vegetables. Makes 8 servings.

Sausage Burger Italiano

Remove the casings from 1 pound mild Italian sausage; finely crumble meat; add ¼ cup fine dry bread crumbs, 1 small onion (finely chopped), 1 egg, and ½ teaspoon oregano leaves. Mix well and shape into 6 oblong patties, each about the size of a slice of French bread. Grill according to previous directions, turning to brown both sides, until meat in center is no longer pink when slashed; watch for flare-ups. Butter 12 slices French bread and grill if desired.

Set out the following condiments, each in a separate container: shredded mozzarella cheese; canned marinated artichoke halves (cut through stem end into thin slices); mild red or white onion, thinly sliced; red bell pepper, cut in strips. Make sandwiches with bread, patties, vegetables, and cheese. Serves 6. □

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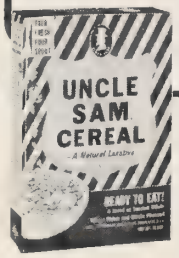

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DARROW M. WATT

Big blueberries *give juicy sweetness to spicy, streusel-crusted coffee ring*

In the brief time of blueberries

Plump and purplish, fresh blueberries make their brief annual appearance in our Western markets each July. To enjoy them while we may, we propose this spicy blueberry coffee cake, layered with cinnamon-walnut streusel.

Blueberry-Crunch Coffee Ring

- Walnut streusel (recipe follows)
- 1½ cups all-purpose flour
- ¾ cup sugar
- 3 teaspoons baking powder
- ½ teaspoon salt
- ¼ teaspoon ground nutmeg
- ⅓ cup firm butter or margarine
- 1 cup fresh blueberries
- 1 egg
- ½ cup milk
- 1 teaspoon vanilla
- Powdered sugar (optional)

In a well-greased and flour-dusted 9-inch tube pan or layer cake pan with removable bottom, pat about ½ of the walnut streusel in an even layer; set pan aside.

In a large bowl, mix flour, sugar, baking powder, salt, and nutmeg. With a pastry blender or 2 knives, cut in the butter until mixture resembles coarse crumbs. Gently stir in the berries.

Beat egg lightly with milk and vanilla; stir into berry mixture just until combined. Spread ½ of the batter in streusel-lined pan. Sprinkle with remaining streusel, then spread with remaining batter.

Bake in a 350° oven for 45 to 60 minutes, or until a wooden pick inserted in center comes out clean. Let stand in pan for 20 minutes, then remove and let cool. Dust with powdered sugar, if desired. Serves 8 to 10.—*C. S., Belmont, Calif.*

Walnut streusel. Mix ½ cup *each* finely chopped walnuts and packed brown sugar, 2 tablespoons all-purpose flour, 2 teaspoons ground cinnamon, and 2 tablespoons melted butter or margarine. ▫

DARROW M. WATT

French toast and skewered sausages *stay piping hot on electric griddle at help-yourself outdoor brunch*

JULY MENUS

Sausage brunch on skewers, supper with fish stew, barbecue with chicken

Meals tend to migrate outdoors in July. So we designed this month's menus to suit the outdoor scene.

The first menu, a leisurely patio brunch for six to eight, proposes thick French-bread French toast that's smooth and custardy at the center. Juicy summer berries and honey-sweetened yogurt are the colorful, cool toppings.

For a lucky catch at sea or at the market, our second menu suggests a quick tomato-based fish stew you can make using almost any kind of lean fish fillets.

And an old outdoor favorite, barbecued chicken, is the center of our third menu —a family supper with a South-of-the-border character.

Weekend company brunch

If you have an electric griddle, set it up on the patio so the cook can enjoy the garden and guests while heating the sausages and toast. Otherwise, cook them in the kitchen and keep them hot in the oven until serving time.

Chilled Orange or Apple Juice
Overnight French Custard Toast
Fresh Berries Honey-sweetened Yogurt
Sliced Almonds or Coconut
Smoked Sausage Skewers

The day before your brunch, put the French bread in batter and string the sausages onto long wooden skewers (to fill 8 skewers with 5 or 6 links each, you'll need about 1 lb. appetizer-size smoked sausages). You'll also need about 2 cups unflavored yogurt (sweetened to taste with honey), about ½ cup sliced almonds or coconut, and 4 cups fresh berries (sweetened to taste).

If you'd like to celebrate the Fourth with a red-white-and-blue theme, offer blue-

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Kraft natural colby cheese and fresh fruit combine in a splash of color to make this summertime cheese plate.

Serve with Honey Dressing.

Honey Dressing

¾ cup Kraft real mayonnaise
⅓ cup honey
1 tablespoon grated lemon rind
¾ teaspoon lemon juice
¼ teaspoon ginger

Combine mayonnaise, honey, lemon rind, lemon juice and ginger; mix well. Chill. 1 cup

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Lemonade Chicken

Cut 2 3-lb. fryer chickens into serving pieces. Combine 1 6-ounce can frozen lemonade concentrate (thawed), ⅓ cup soy sauce, 1 tsp. seasoned salt, ⅛ tsp. garlic powder. Blend well. Dip chicken in mixture, place bone side down, over medium-hot coals. Grill about 25 minutes. Turn, bone side up, grill about 15 to 20 minutes more. Brush chicken with lemonade mixture frequently last 10 minutes. Makes 8 servings.

Barbecue with Gulf Lite- the "one match" charcoal starter.

berries and either raspberries or strawberries along with the yogurt to top the slices of toast.

The day of the brunch, you'll need about 30 minutes to brown the French toast and heat the sausages. If you have a griddle, cook the sausages first and move them to one side to keep warm while you cook the toast. (Or broil the sausages until they are heated through while you brown the French toast in a frying pan; then keep both hot in the oven until serving time.)

Overnight French Custard Toast

With a wire whisk, slightly beat 6 eggs. Add 2 tablespoons all-purpose flour; 1 tablespoon sugar; 1 teaspoon *each* ground cinnamon, salt, and baking powder; and ¼ teaspoon ground nutmeg. Beat to form a smooth, thin batter; then gradually beat in 2 cups milk and 1 teaspoon vanilla. Pour into an ungreased 9- by 13-inch baking dish.

Cut 1 oblong loaf (about 1 lb.) French bread into 1- to 1½-inch-thick slices. Moisten one side of each slice in the batter, then flip slices over and arrange them in a single layer in the batter. Squeeze slices together slightly, if necessary, to fit in pan. Cover and refrigerate overnight. About 30 minutes before cooking, turn slices over to finish soaking the other side.

Place a large frying pan or griddle over medium heat. When it is hot, coat lightly with butter or margarine. Add as many bread slices as will fit in the pan, spooning any remaining batter over tops; cook for 8 to 10 minutes on each side, or until golden. Cook the remaining bread slices the same way.

If made ahead, place on a warm platter, cover with foil, and keep hot in a 200° oven up to 30 minutes. Makes 6 to 8 servings.

Summer fish stew supper

You can use rockfish (such as cod, red snapper, or perch), sea bass, salmon, shark, or any combination of fish fillets in this quick, tomatoey stew.

Mixed Green Salad
Fisherman's Stew
Toasted Bagel Halves Butter or Margarine

An hour is about all the preparation time this supper requires. While the tomato broth simmers, prepare the salad and set the table; then, as the fish cooks, you'll have time to toast the bagels.

Fisherman's Stew

- 4 slices bacon, cut into 2-inch pieces
- 1 large onion, chopped
- 2 large thin-skinned potatoes, diced
- 1 large can (28 oz.) pear-shaped tomatoes
- 1 cup dry vermouth (or ¼ cup lemon juice plus ¾ cup water)
- 1 tablespoon Worcestershire
- 4 whole bay leaves
- 2 or 3 cloves garlic, minced or pressed
- 2 teaspoons salt
- ½ teaspoon pepper
- 2 pounds fish fillets, cut into 2-inch pieces

In a 4- or 5-quart pan, fry bacon over medium heat until browned; add onion and potatoes to bacon and drippings and cook, stirring, for about 10 minutes, or until onion is limp. Add tomatoes and their liquid and break up tomatoes with a spoon. Stir in vermouth, Worcestershire, bay leaves, garlic, salt, and pepper; cover and simmer for about 30 minutes, or until potatoes are tender.

Add fish, stirring gently to mix; cover and continue cooking for about 5 minutes or just until fish flakes easily with a fork. Serves 4 to 6.—*N. C., Seattle.*

Patio chicken barbecue

With salad made ahead, the rest of the preparation for this casual supper can

DARROW M. WATT

The day's catch *comes home for the family to enjoy in pungent tomato broth as Fisherman's Stew*

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move outside with the family. You warm tortillas and cook the vegetables along with the chicken on the barbecue grill.

Molded Mexican Rice Salad
Barbecued Chili-basted Chicken
Foil-steamed Zucchini Fingers
Steamed Corn Tortillas Chilled Melon

Prepare the rice salad ahead of time and chill; about ½ hour before serving time, unmold it and let it stand at room temperature.

About 1½ hours before meal time, you should light the coals. When the chicken is about half done, arrange the zucchini and tortillas on the grill to cook. To warm the tortillas, wrap a stack of 12 corn tortillas in foil; set on grill, turning often, for 20 minutes, or until hot.

Molded Mexican Rice Salad

- 2 cups long-grain rice
- Creamy chili dressing (recipe follows)
- 1 small green pepper, seeded and chopped
- ½ cup chopped green onion
- 1 small can (2¼ oz.) sliced ripe olives, drained
- About 1 tablespoon mayonnaise
- 2 cups halved cherry tomatoes
- Leaf lettuce
- Fresh coriander (cilantro) leaves (optional)

Cook rice according to package directions and spoon into a large bowl. Cool slightly, then stir in dressing; add pepper, onion, and olives. Grease a 2-quart ring mold with mayonnaise and press rice mixture into mold. Cover and refrigerate 6 hours or overnight.

To unmold, run a knife around edge to loosen salad and invert a platter over top; invert and shake firmly. Fill center with tomatoes. Garnish as desired with lettuce and coriander. Serves 6.—*J. H., Garden Grove, Calif.*

Creamy chili dressing. In a small bowl, stir together ¾ cup mayonnaise, 5 tablespoons white wine vinegar, 2½ teaspoons chili powder, ¼ teaspoon ground cumin, and 1 small (4 oz.) can diced green chilies.

Barbecued Chili-basted Chicken

Buy a 3- to 4-pound broiler-fryer chicken, cut into serving pieces; rinse and pat dry. Arrange on a lightly greased grill set 4 to 6 inches above low-glowing coals. Cook for about 40 minutes, turning pieces to brown evenly. Lightly brush with tomato-based chili sauce (you'll need about ½ cup). Continue cooking and basting for 10 to 20 minutes longer, or until meat is no longer pink near bone when slashed. Serves 4 to 6.

Foil-steamed Zucchini Fingers

Cut 3 or 4 small zucchini squash lengthwise into quarters and sprinkle lightly with lemon pepper. Wrap securely in heavy foil and set on grill over low-glowing coals for about 20 minutes, or until hot but still crisp. Serves 4 to 6. □

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Creamy fruit sherbet you can whip up in minutes

With a tray of frozen milk cubes in the freezer, you can whip up this refreshing fruit ice in minutes. Using a food processor, you blend the milk cubes with chilled or partially frozen fruit (frozen gives a firmer texture) and a little sugar for a creamy, ready-to-eat sherbet.

If you don't have a food processor, you can use an electric mixer and blender. But the sherbet may be coarser and softer, and you may need to freeze it until it firms up.

Intensely flavored fruits such as berries, plums, ripe peaches, and cantaloupes work best in this recipe.

Creamy Berry Sherbet

- 1 cup milk
- 1 cup unsweetened raspberries, blackberries, olallieberries, or boysenberries
- 4 to 6 tablespoons sugar

Pour milk into an ice-cube tray; freeze. Chill fruit well or freeze.

Shortly before serving, remove frozen milk and berries (if frozen) from freezer. Let stand about 5 minutes at room temperature. Remove milk cubes from tray; cut them into small chunks if cubes are large. With a food processor, whirl about ⅓ of the frozen milk pieces at a time, using on-off bursts to break up the ice. Then process continuously until velvety. Drop in berries (about ⅓ at a time) and sugar; process until smooth.

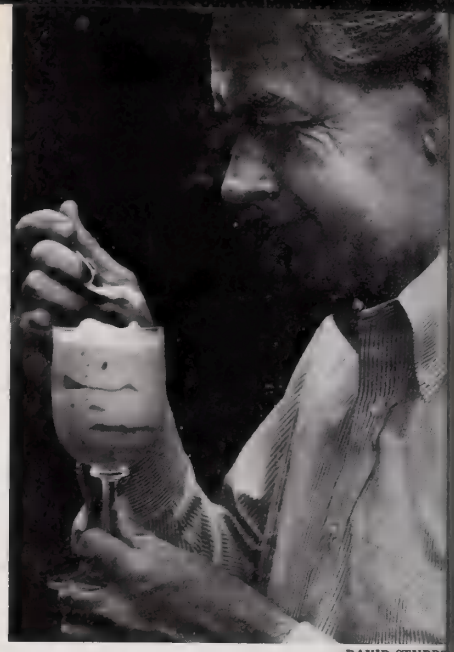
If you don't have a food processor, place all the ice in a mixing bowl and smash it into small pieces with a wooden spoon. Then beat with an electric mixer until smooth—slowly at first, then gradually increasing to higher speeds. Purée berries in a blender, adding 2 to 4 tablespoons milk to start blender, if needed.

Beat fruit purée into milk slush. Stir in sugar to taste. For a soft sherbet, serve immediately. If texture is too soft, store mixture in freezer until it reaches desired firmness—or serve as a slushy shake. Freeze leftover sherbet, but let it soften at room temperature 15 to 30 minutes before serving. Makes about 3 cups.

Creamy Plum Sherbet. Cut 3 to 4 dark purple plums (such as Satsuma, Nubiana) into small chunks to make 1 cup. Chill well or freeze. Prepare as directed for Creamy Berry Sherbet, substituting the plums for berries.

Creamy Peach Sherbet. Peel, pit, and cut 1 to 2 medium-size ripe peaches into ½-inch chunks to make 1 cup. Chill or freeze and prepare as for Creamy Berry Sherbet, substituting peaches for berries.

Creamy Cantaloupe Sherbet. Cut 1 small ripe cantaloupe in half, discard seeds, and cut off rind. Cut fruit into ½-inch chunks to make 1 cup. Chill or freeze fruit. Prepare as directed for Creamy Berry Sherbet—except omit berries, add 1½ tablespoons orange juice, and reduce sugar to 2 to 3 tablespoons. □



DAVID STUBBS

Puréed berries *blended with frozen milk in food processor make creamy sherbet*

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NORMAN A. PLATE

Open-faced *mushroom, avocado, cress, and cheese sandwich goes well with soup*

Sandwiches for the vegetabler

Vegetable sandwiches? Why not? These four open-faced combinations are a tasty alternative to the old standbys. Each can be served for a light snack, or with a bowl of soup or a salad for a satisfying meal.

Avocado and Mushrooms with Cheese

- 1 large ripe avocado
- 4 to 6 slices dark Russian rye bread, lightly toasted
- 1 package (4 to 5 oz.) garlic- and herb-flavored creamy appetizer cheese
- About ¼ cup chopped or sliced toasted almonds
- Watercress
- About 4 to 6 large mushrooms, sliced

Peel, pit, and thinly slice the avocado. Toast the bread, then spread generously with the cheese. Sprinkle the nuts evenly over each sandwich. Top with watercress leaves, then arrange avocado and mushrooms attractively on top. Makes 4 to 6 sandwiches.

Slow-cooked Onion and Tomato on Rye

- 3 tablespoons butter or margarine
- 2 large onions, thinly sliced
- ¼ teaspoon caraway seed
- 4 slices dark Russian rye bread
- 1 medium-size tomato, thinly sliced
- About ¾ cup shredded Swiss or Cheddar cheese

Melt butter in a wide frying pan. Add the onions, cover, and cook over medium heat for about 5 minutes; stir often. Remove cover, stir in caraway, and continue to cook until onions are golden,

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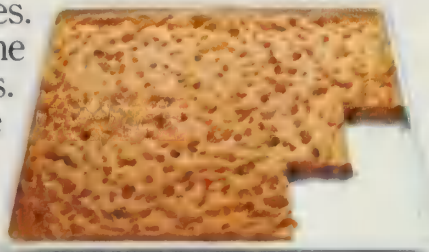

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about 15 minutes; stir often.

Lightly toast the bread and arrange on a baking sheet. Top each with tomato slices and sprinkle evenly with cheese. Slip sandwiches under a broiler just until cheese melts. Spoon onions evenly over each. Makes 4 sandwiches.

Sautéed Zucchini on Sourdough

- 1 small onion, chopped
- 1 clove garlic, minced or pressed
- ½ teaspoon *each* dry basil and oregano leaves
- 2 tablespoons olive oil or salad oil
- 2 medium-size zucchini, thinly sliced
- Egg salad (recipe follows), optional
- 4 slices sourdough bread, lightly toasted
- 1 medium-size tomato, thinly sliced
- About ½ cup shredded Cheddar or Parmesan cheese

In a frying pan, sauté the onion, garlic, basil, and oregano in the oil until onion is limp. Add zucchini and cook, stirring, until just tender.

Meanwhile, prepare egg salad, if used, and spread on bread (or leave bread plain or spread lightly with butter or mayonnaise). Arrange bread on a baking sheet. Top each with tomato slices, then pile on zucchini mixture; sprinkle with cheese. Broil just until cheese melts. Makes 4 sandwiches.—*B. H., Brookings, Ore.*

Egg salad. Chop 3 hard-cooked eggs and mix in 3 tablespoons mayonnaise and 1½ teaspoons prepared mustard. Season to taste with celery salt and pepper.

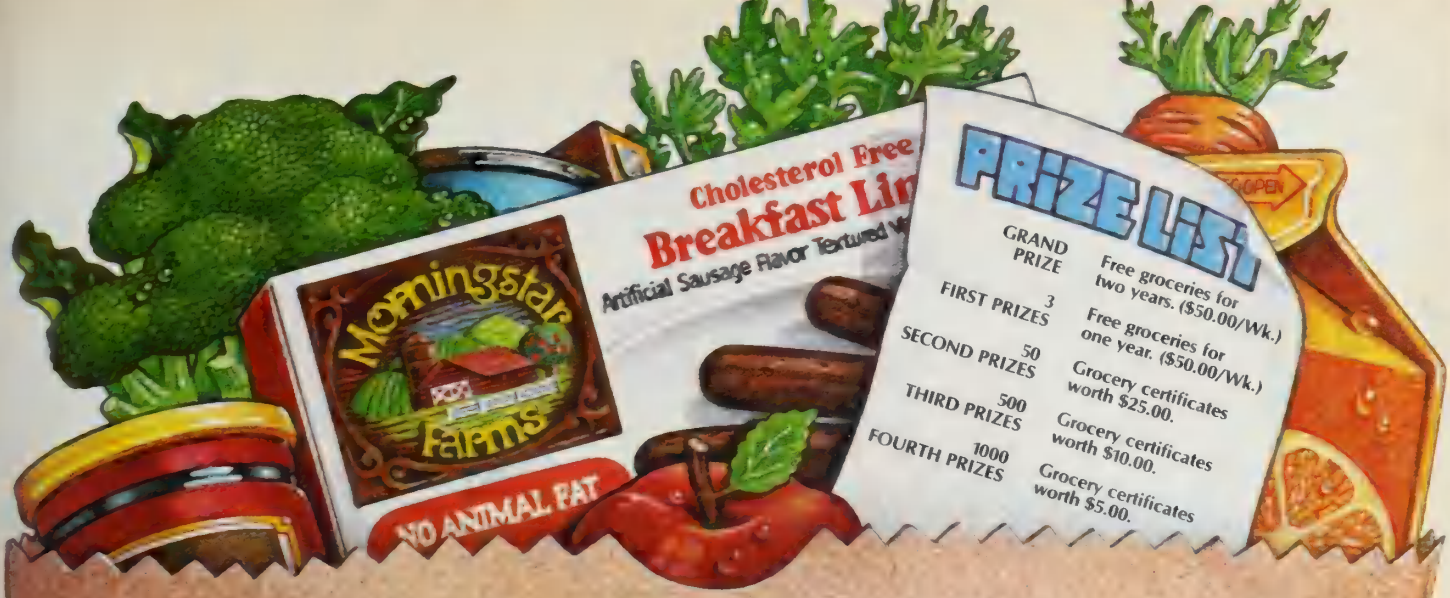
Sautéed Mushrooms and Cheese on Rye

- 1 large onion, chopped
- 1 clove garlic, minced or pressed
- ¾ pound mushrooms, sliced
- 3 tablespoons butter or margarine
- 4 to 6 slices rye bread, lightly toasted
- About 1 cup shredded Swiss cheese

In a wide frying pan, sauté the onion, garlic, and mushrooms in the butter until mushrooms are tender and most of the liquid is evaporated. Arrange bread on a baking sheet. Pile on mushroom mixture and sprinkle with cheese. Broil just until cheese melts. Makes 4 to 6 sandwiches. —*J. S., Woodland Hills, Calif.* □

NORMAN A. PLATE

Sautéed mushrooms *on rye are topped with cheese, then go under the broiler*



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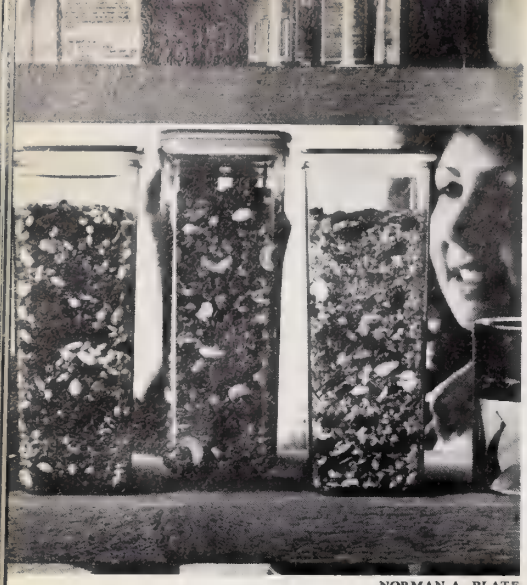

NORMAN A. PLATE

Which granola *this morning—Honey-Oat, Spiced Fruit, or Puffed Cereal? Tightly covered, they'll keep for weeks on your shelf*

Three newsworthy granolas ... honey, spicy, puffy

If you'd like a change in what fills your cereal bowl, you might welcome these three new recipes—each with a distinctive combination of flavors and textures.

Honey-Oat Granola

- 4½ cups regular or quick-cooking rolled oats
- 1 cup *each* toasted wheat germ, unsalted sunflower seeds, and raw cashews
- ½ cup sweetened shredded coconut
- ⅔ cup dark brown sugar, firmly packed
- ½ cup salad oil
- ⅓ cup *each* nonfat dry milk and honey

In a large bowl, combine the oats, wheat germ, sunflower seeds, cashews, and coconut; set aside. In a pan, combine the brown sugar, oil, dry milk, and honey. Stir over medium heat until mixture boils. Boil for 2 minutes, pour over the cereal, and mix thoroughly.

Spread mixture evenly in a 10- by 15-inch jelly-roll pan. Bake, uncovered, in a 325° oven, stirring occasionally, for 25 to 30 minutes, or until golden. Stir several times while cooling. Makes about 9 cups.—*M. W., Fremont, Calif.*

Spiced Fruit Granola

- 3½ cups regular or quick-cooking rolled oats
- 1 cup *each* chopped walnuts, sweetened shredded coconut, and slivered almonds
- ½ cup *each* toasted wheat germ and unsalted sunflower seeds or sesame seed
- 1 teaspoon ground cinnamon
- ½ teaspoon ground cloves
- ¼ cup *each* salad oil and honey
- 2 tablespoons grated orange peel
- ½ cup *each* raisins and chopped dried apricots

In a large bowl, combine the oats, walnuts, coconut, almonds, wheat germ, seeds, cinnamon, and cloves. In a small bowl, stir together the oil, honey, and orange peel; pour over oat mixture and blend thoroughly.

Spread evenly in a 10- by 15-inch jelly-roll pan. Bake, uncovered, in a 200° oven, stirring occasionally, for 55 to 60 minutes, or until lightly toasted.

Cool completely, then stir in raisins and apricots. Makes about 8½ to 9 cups.—*Y. Y., Reedley, Calif.*

Puffed Cereal Granola

- 6 ounces (about 13 cups) unsweetened puffed rice, wheat, or millet cereal (or a combination)
- 1 cup unsalted sunflower seeds
- 2 cups unsalted peanuts, raw cashews, or chopped walnuts (or a combination)
- ½ cup *each* honey, water, and salad oil
- 2 tablespoons vanilla
- 6 ounces (about 2 cups) chopped dried apple
- ½ cup raisins or chopped dates, figs, or pitted prunes

In a large bowl, combine the puffed cereal, sunflower seeds, and nuts. In a small bowl, mix together the honey, water, salad oil, and vanilla; pour over cereal mixture and stir to coat evenly. Spread in two 10- by 15-inch jelly roll pans. Bake, uncovered, in a 325° oven, stirring occasionally, for about 45 minutes, or until golden. Cool completely, then stir in apples and raisins. Makes about 10 cups.—*J. C., Arcata, Calif.* □

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2 packages (5 oz. size) JOHNSTON'S Hot Fudge Ready-Topping

¼ cup chopped nuts

Whipped cream or topping for garnish

Maraschino cherries

Soften 2 pints ice cream in the refrigerator. Spoon into a mixing bowl, stirring until the ice cream is just pliable. Spoon it into pie crust, cover with inverted plastic lid and place in freezer until hard.

Serve pie with separate dishes of Hot Fudge Topping (heated), nuts, whipped topping and cherries. Cut ice cream pie into wedges. Then pass the separate dishes and let everyone make their own Ice Cream Sundae pie.

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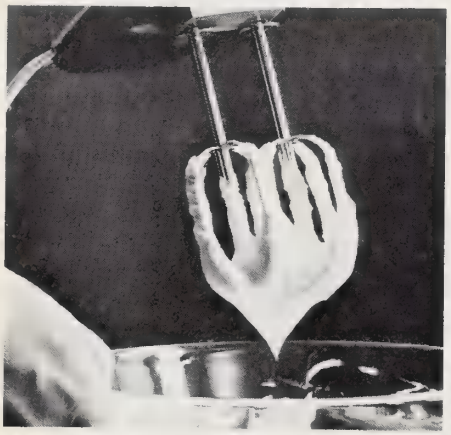
1 . *Adding lemon juice to slightly beaten egg whites helps dissolve sugar, stabilize meringue*



2 . *Beat egg whites until stiff peaks form on beaters; then beat in vanilla*

DARROW M. WATT

3 . *Slow, steady squeeze forces meringue from bag to make swirly creatures*

Cooky squiggles . . . they're meringue

These snakes, snails, swans, and other doodles in meringue are cookies even a child can make.

Designed especially with first-timers in mind, these shapes require little skill with a pastry bag. We used a bag fitted with a large decorator tube or tip with a closed star pattern. You can find pastry bags and tubes at cookware and some department stores. Pastry bags range in price from about $1 to $7; tubes cost about 50 cents each.

Meringue Whimsies

- 4 egg whites (about ½ cup), at room temperature
- ½ teaspoon lemon juice or vinegar
- 1 cup sugar
- ½ teaspoon vanilla
- Currants or raisins

Line 2 lightly greased rimless baking sheets with parchment or brown paper; set aside while preparing meringue.

Using an electric mixer, beat egg whites until foamy; add lemon juice and beat until mixture forms soft peaks. Beating constantly at high speed, add sugar gradually (1 tablespoon at a time), until mixture forms stiff glossy peaks; scrape sugar from sides of bowl occasionally with a rubber spatula. Beat in vanilla.

Spoon meringue into a pastry bag fitted with a decorator tube and fold end over to enclose. Squeeze slowly onto paper-lined baking sheets to make short, thick shapes (if cooky is too long or thin, it's likely to break when you try to remove it from pan). Decorate with currants.

Bake in a 200° oven for 1 to 1½ hours or until dry; remove with a metal spatula and place on a flat surface to cool. Store in an airtight container. Makes about 25 3-inch cookies. □

4 . *Squiggly, whimsical animal creations are airy, bite-size meringues dotted with currants*

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DARROW M. WATT

Coating *gets crisp and golden as fish cooks; serve each trout with bacon*

For whom the trout fries

"A pan of fried trout can't be bettered," wrote Ernest Hemingway. "But there is a good and bad way of frying them."

The good way, according to an article Hemingway wrote for the *Toronto Star* in 1920, is to coat fresh trout with cornmeal, then cook them slowly in bacon drippings until crisp outside but still moist inside. We've added a few touches of our own. Combining the cornmeal with baking mix gives the trout an extra-crisp coating and the green onion and lemon filling adds flavor.

Ernest's Trout

- 3 green onions, chopped (or ¼ cup freeze-dried chives)
- 1 tablespoon chopped parsley or dried parsley flakes
- 2 tablespoons lemon juice
- ¼ teaspoon pepper
- 6 trout (about 8 oz. *each*), cleaned
- Seasoned salt
- 6 slices bacon
- ½ cup buttermilk baking mix
- 2 tablespoons yellow cornmeal
- Lemon wedges

Combine the onion, parsley, juice, and pepper; set aside. Sprinkle trout cavities with the salt, then spread each with some of the onion mixture.

In a wide frying pan over medium heat, crisply fry the bacon. Lift out and drain. Reserve pan drippings, leaving 2 or 3 tablespoons in the pan.

Combine baking mix and cornmeal on a piece of waxed paper or foil. Coat both sides of trout in the mixture. Cook half the trout at a time, 4 to 5 minutes on a side or until golden and fish flakes. Top each with bacon and serve with lemon wedges. Use additional bacon drippings to cook remaining trout. Serves 6. □

HAMS THIS BEAUTIFUL OUTSIDE SHOULD START WITH AN INSIDE THAT'S GUARANTEED.

EXL® HAM POTATO LATTICE

Bake ham as directed. Fill pastry bag with 2 cups of prepared instant mashed potatoes. Using a star tube, pipe potatoes in lattice design on top of ham. Broil until lightly brown. Garnish with cloves. Place on serving platter and pipe remaining potatoes around ham. Decorate with cucumbers and endive.

EXL® HAM RAISIN SAUCE

1 cup raisins
1½ cups water
⅓ cup brown sugar
1½ tbsp. cornstarch
1 tbsp. vinegar
¼ tsp. cinnamon
¼ tsp. cloves
¼ tsp. dry mustard
¼ tsp. salt

Boil raisins in water 5 minutes. Add sugar mixed with cornstarch, spices, mustard and salt. Cook, stirring until thickened. Blend in vinegar. Makes 1½ cups. Serve hot on ham and garnish with pecan halves.

EXL® HAM APRICOT GLAZE

1-18 oz. jar apricot preserves
2 tsp. prepared mustard
¼ tsp. allspice
⅓ cup orange juice

Blend all ingredients together and brush over EXL Ham last half hour of baking time. Heat extra glaze for serving with ham. Makes about 2 cups. Garnish with drained apricot halves and mandarin orange segments.

An extra special ham recipe deserves a ham that's guaranteed extra lean. EXL Ham from Hormel.

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DARROW M. WA

Sausage and onion *steeped in brine acquire a pleasant pickled flavor. Serve as an appetizer or in sandwiches*

Pickled sausages for picnics, antipasto

Pickled in a lightly seasoned brine, these piquant sausage slices make a fine addition to an antipasto tray. Or take them on a picnic with dark bread, mustard and cheese to make into hearty sandwiches.

You start with knackwurst (fully cooked garlic frankfurters). Simply slice, layer slices in a jar with thin onion rings, and top with the heated vinegar brine. The sausages need at least three days to absorb flavors but will keep up to a month in the refrigerator.

Pickled Sausage Slices

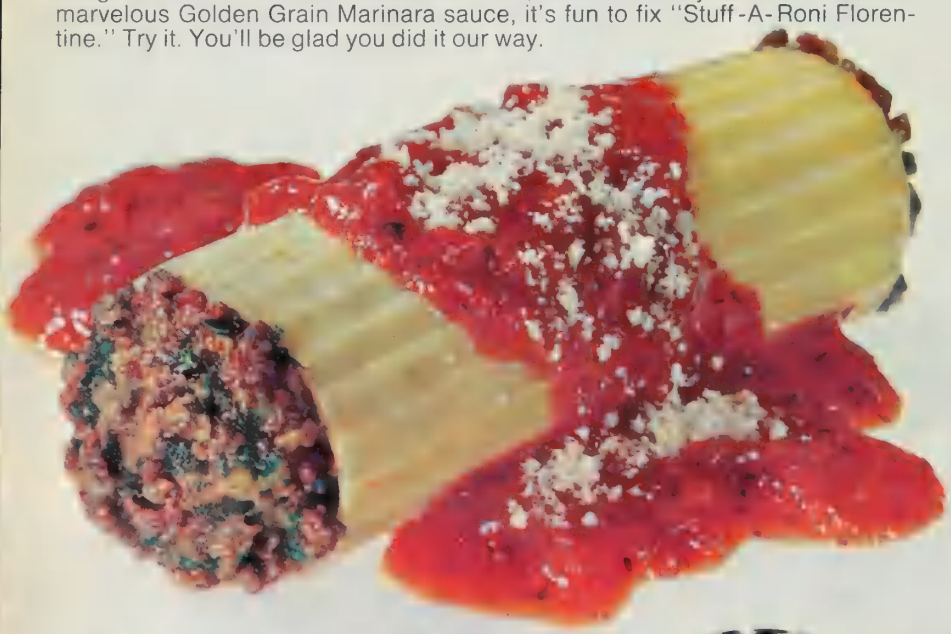
- 2 cups water
- 1¾ cups white wine vinegar
- 2 tablespoons sugar
- 1 tablespoon mixed pickling spice
- 1 teaspoon salt
- 8 whole allspice
- 1½ pounds (about 5) fully cooked garlic sausages
- 1 medium-size onion, thinly sliced

In a saucepan, bring the water, vinegar, sugar, pickling spice, salt, and allspice to boiling. Reduce heat and simmer, uncovered, for 10 minutes. Set aside.

Peel off and discard sausage casings. Cut sausages into ¼-inch-thick diagonal slices. In a 2-quart glass container, alternately layer the sausage and onion slices. Pour in vinegar mixture. Cover and refrigerate at least 3 days before sampling; keeps in refrigerator up to 1 month. Makes 2 quarts. □

Easy stuff.

Now a great Italian recipe made easy. Nobody likes to stuff limp, cooked macaroni. That's why Golden Grain created Stuff-A-Roni. You fill it with good things before it's cooked—when it's firm, solid and easy to stuff. And, with marvelous Golden Grain Marinara sauce, it's fun to fix "Stuff-A-Roni Florentine." Try it. You'll be glad you did it our way.



Stuff-a-Roni Florentine

1 pkg. Golden Grain Stuff-A-Roni.
2 (15 oz.) cans Golden Grain Marinara Sauce.

Filling:

½ lb. ground beef
1 med. onion, minced
2 Tbsp. oil
1 cup soft bread crumbs
10 oz. pkg. spinach, thawed
2 Tbsp. grated Parmesan
3 eggs
1½ tsp. salt
¼ tsp. pepper

Cover bottom of oblong 2 qt. baking dish with 1 cup sauce. Brown beef and onion in oil; add remaining ingredients. Fill uncooked Stuff-A-Roni; arrange in single layer in baking dish. Pour remaining sauce with ½ cup water over top. Cover with foil; bake at 375°F., 1 hour.

THE GOLDEN GRAIN FAMILY OF FINE FOODS

Pillsbury Plus announces a refreshing idea in cake: Ice Cream Pie.

Spicy Ice Cream Pie

Now one of the most refreshing ideas of summer can be one of the most delicious with a flavorful, moist pie shell made from Pillsbury Plus.

Pie Shells
1 pkg. Pillsbury Plus Applesauce Spice Cake Mix*
1 cup water
¾ cup Pillsbury Ready-To-Spread Vanilla Frosting Supreme
2 tablespoons oil

Filling
6 cups (1½ qts.) maple nut or your favorite ice cream, softened

Heat oven to 350°F. Generously grease and flour bottom, sides and rim of two 9-inch pie pans or round cake pans.** In large bowl, blend all shell ingredients; beat 2 minutes at *highest* speed. Spread half of batter (2¼ cups) in bottom of each pan. Do *not* spread up sides of pan. Bake at 350°F. for 25 to 30 minutes; DO NOT OVERBAKE. Cakes will collapse to form shells. Cool completely. In large bowl, blend ice cream until smooth; spread evenly in center of each shell, leaving a ½-inch rim. Freeze at least 2 hours; store in freezer. Wrap frozen pies airtight to avoid freezer burn. Makes two pies. HIGH ALTITUDE: No change.

*Pillsbury Plus Yellow Cake Mix can be substituted for Applesauce Spice.
**Do *not* use 8-inch pie or cake pans.

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Sauer (sour) kraut and all that? Suspend your disbelief

Chefs of the West®

The Art of Cooking . . . by men . . . for men

Some things just don't mix, but it's pretty hard to determine in advance what they are. We all know about oil and water and would never try to mingle the two unless the water happens to be in a vinegar bottle and we need salad dressing. Calves feet and oranges don't sound promising until one decides to make a gelatin dessert (or didn't you know gelatin comes from cow bones and such?).

The point is that in cooking, at least, we should always go along with Coleridge and willingly suspend our disbelief.

Scott Harlan steps in at this point to suggest a sandwich. It is quick, easy, and unusual, the perfect summer supper out on the deck, and that's all very well until you find out what's in it. What he's telling us, and without the shadow of a smile, is to fill an onion roll with hamburger, sauerkraut, cranberry sauce, chili sauce, and brown sugar. Well here's the test: mix up a batch in a locked kitchen and feed it to the family without a word about ingredients—there won't be any leftovers.

Sweet and Sour Hearty Sandwiches

- 1 envelope onion soup mix (makes 4 to 6 servings)
- ½ cup water
- 1 egg, slightly beaten
- 1½ pounds lean ground beef
- 1 can (8 oz.) sauerkraut, drained and chopped
- ½ cup canned whole cranberry sauce
- ¼ cup tomato-based chili sauce
- 3 tablespoons packed brown sugar
- 6 onion rolls, split and toasted

Combine the soup mix, ¼ cup of the water, egg, and meat. Shape into 6 patties; set aside. Combine sauerkraut, cranberry sauce, chili sauce, the remaining ¼ cup water, and sugar in a small pan and simmer, uncovered, for 20 minutes; stir occasionally.

Meanwhile, cook patties in a wide frying pan or griddle over medium-high heat or on a grill 4 to 6 inches above glowing coals until browned on both sides and done to your liking when slashed.

To assemble, place 1 patty on bottom half of each roll, evenly cover with the sauerkraut mixture, then add roll top. Makes 6 sandwiches.

Scott Harlan

San Diego

The king of herbs is basil. In fact, the name comes from *basilikon*, Greek for

Wish-Bone Creamy Cucumber Dressing. We make it with pieces of *real* cucumber. (Not every creamy cucumber dressing can say that.) And *real* sour cream. We add a sprinkle of black pepper. A touch of onion. We specially blend these choice ingredients for a fresh taste that's deliciously creamy and cucumberry. Try Wish-Bone Creamy Cucumber Dressing on your next salad. You'll love every *real* cucumber bit of it.

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Cucumber shown larger than actual size

"And the queen of sauces is surely mayonnaise . . ."

"royal." And the queen of sauces is surely mayonnaise, despite our democratic tendency to slap it on everything. *Chef* Donald Black grows basil in his garden and makes mayonnaise in his kitchen. He had the idea of blending the two in a royal wedding, and the result is superb. Use it on freshly picked garden vegetables or new potatoes.

Mayonnaise Virescent

- 1¼ cups salad oil
- 1 cup fresh basil leaves (lightly packed) or ⅓ cup dry basil
- 1 cup celery leaves
- 1 egg
- 1 tablespoon Dijon mustard
- 1 tablespoon grated fresh ginger
- ¼ teaspoon salt
- 3 tablespoons lemon juice
- 2 cloves garlic
- ¼ cup coarsely chopped shallots or green onions

In a blender, combine 1 cup of the oil, basil, and celery leaves. Whirl, stopping occasionally to push herbs down into oil, until coarsely blended. Spoon into a small bowl.

Without cleaning the blender container, whirl the egg with the mustard, ginger, salt, lemon juice, garlic, and shallots. With the motor running, pour the remaining ¼ cup oil into the egg mixture in a slow, steady stream. With motor still running, add the herb and oil mixture, stopping to stir occasionally if mixture thickens too much to blend. Serve as a topping on hot cooked vegetables or boiled potatoes or as a dip for raw vegetables. Makes about 2 cups mayonnaise.

Donald A. Black

Walnut Creek, Calif.

It's that time of the year when the barbecue is much in use, and steak is often the item on the grill. Now, while some like their steak naked, others like to cloak it in a bottled sauce or a rich béarnaise. Harold Adams, though, has a totally different idea. He lives on the Big Island of Hawaii, surrounded by free

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avocados. His steaks are modestly attired with guacamole. Your avocados may not be free, but the idea is a good one, at least for a change of pace.

Steak Guacamole

- 1 cup mashed avocado (about 2 medium-size avocados)
- 1½ tablespoons lemon juice
- 1 clove garlic, minced or pressed
- 2 tablespoons finely chopped onion
- 1 teaspoon grated fresh ginger
- 2 tablespoons diced green chilies (optional)
- About ¼ teaspoon liquid hot pepper seasoning
- Salt
- Steak, cooked as you like it

Blend the avocado, lemon juice, garlic, onion, ginger, green chilies (if used), and hot pepper seasoning. Season to taste with salt. Serve at room temperature to accompany broiled or barbecued steak. Makes 1¼ cups guacamole.

Harold Adams

Puako, Hawaii

A sharp tangy flavor and a filling that is completely uncooked make this cheesecake quite different from others you may have tried. Those of you who know Italian pastry may find the final result reminiscent of *cannoli,* and that's no surprise, since both are based on ricotta cheese.

Almond No-bake Cheesecake

- 12 cream-filled chocolate cookies
- 2 tablespoons butter or margarine, melted
- 2 cartons (15 oz. *each*) ricotta cheese
- ½ teaspoon almond extract
- ½ teaspoon vanilla
- ½ teaspoon grated lemon peel
- 1 cup sour cream
- ⅔ cup sugar
- 1 envelope unflavored gelatin
- ¼ cup milk
- ½ cup chopped almonds, toasted
- About ½ square (½ oz.) semisweet chocolate
- 3 tablespoons sliced almonds, toasted

Crush cookies with a rolling pin and turn into a bowl. Add butter and blend, then press mixture onto bottom and sides of a 9-inch cake pan with a removable bottom or spring-release sides. Set aside.

In blender or food processor, place the ricotta, almond extract, vanilla, lemon peel, sour cream, and sugar. Whirl until blended, stopping to scrape down sides if necessary. Sprinkle gelatin over milk; let stand until softened. Heat, stirring, just until gelatin is dissolved. Add to blender mixture and whirl until smooth; stir in the chopped almonds.

Pour mixture into cookie crust. Grate chocolate over the filling. Refrigerate until quite firm, about 8 hours or overnight. To serve, remove pan sides and garnish with toasted sliced almonds. Makes 10 to 12 servings.

Gunther O. Plate

Redwood City, Calif.

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DARROW M. WATT

A squeeze of orange *highlights the distinctive piquancy of this fish-and-rice entrée*

Subtly sweet caper sauce, *rich with tomatoes, onions, and olives, is spooned over pan-fried fillets in our second recipe*

Spain meets the tropics...fish Puerto Rican style

Puerto Rican cooking draws on the traditions of several ethnic cuisines, often with a tropical flair of its own. Predominantly Spanish in character, these two fish dishes are seasoned piquantly—and somewhat exotically.

The first entrée is a fish and rice mixture flavored with the condiment achiote, a mild red paste available in some Mexican markets. (If you can't find achiote, try our substitute.)

In the second, fish fillets are delicately pan-fried, then served with an onion-laced tomato-and-caper sauce.

Use a firm-fleshed rockfish such as red snapper or rock cod for either dish.

Spicy Fish with Rice

In a 3-quart saucepan over medium heat, place 1 ounce (about 2 tablespoons) achiote (or achiote substitute; directions follow). Stirring with a heavy spoon, slowly add 1 cup water and work condiment into a paste (or mix condiment substitute with 1 cup water). Strain achiote paste through a fine wire strainer and return to pan; discard residue.

To the pan add 1 large onion, chopped; 1 green pepper, chopped; and 3 canned sweet cherry red peppers, seeded and chopped. Cook over medium heat, stirring, for 5 minutes. Reduce heat to low and stir in 4 ounces cooked lean ham, diced into ¼-inch pieces; 4 cloves garlic, minced or pressed; and 1 teaspoon fresh coriander (cilantro), chopped; simmer 5 minutes, stirring occasionally.

Stir in 10 pimiento-stuffed olives (halved), 1 teaspoon capers, ¼ cup catsup, ½ teaspoon salt, 1 bottle (8 oz.) clam juice, and 1 cup uncooked long-grain rice. Cover and bring to a boil, then simmer 25 minutes or until rice is tender. Stir in 1 pound firm-fleshed fish fillets, cut into 1-inch cubes. (If using achiote substitute, also stir in 2 tablespoons vinegar.) Cook, covered, about 5 minutes or until fish flakes easily.

Serve in individual bowls; garnish with fresh coriander, if desired. Pass orange wedges to squeeze over each serving. Makes 4 servings.

Achiote substitute. Mix together 3 tablespoons paprika, 1½ teaspoons oregano leaves, 3 cloves garlic (pressed), and ½ teaspoon ground cumin.

Pan-fried Fish with Caper Sauce

Place 3 tablespoons salad oil in a 3-quart saucepan over medium heat. Add 3 medium-size onions, sliced, and 3 cloves garlic, minced or pressed, and sauté until tender. Stir in 1 cup water, 1 can (8 oz.) tomato sauce, 1 tablespoon *each* vinegar and capers, 1 jar (2 oz.) sliced pimientos, 1 bay leaf, ½ teaspoon salt, and 12 pimiento-stuffed green olives (cut into thirds). Cover and simmer, stirring occasionally, for 45 minutes.

Uncover pan, stir in ¼ cup white wine, and continue simmering (uncovered) for an additional 15 minutes or until sauce is slightly thickened. Keep warm while preparing fish. If made ahead, cool to room temperature and chill, covered.

Prepare fish by wiping 2 pounds red snapper or other firm-fleshed fish fillets (about ¾ inch thick) with a damp cloth, then lightly coating them with flour. In a wide frying pan over medium heat, place 2 tablespoons *each* butter or margarine and salad oil; heat until butter foams but does not brown. Cook about half the fillets at a time over medium heat, turning carefully with a spatula, about 5 minutes on each side or until thickest portion of fish flakes easily.

Remove to a warm serving platter and keep warm. Cook remaining fish in same manner, using an additional 1 tablespoon *each* butter and salad oil.

To serve, arrange fish on platter and top with hot caper sauce. (If made ahead, warm sauce over low heat, stirring, until hot.) Garnish with chopped parsley. Makes 6 servings. □

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Slurp!

The Summer Fruit Salad Bar

CALIFORNIA SUMMER FRUITS,

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Fruit Fingers: California plums, peaches, Bartlett pears and nectarines – serve with a dip of one cup KRAFT French Dressing to 1/4 cup honey. Sprinkle with toasted sesame seeds.

California Cut-ups: Cut and pile California Summer Fruits into a clear glass bowl. Top with a mixture of one cup whipped cream, one half cup KRAFT French Dressing, two tablespoons honey and a dash of coriander.

French Fruit Sundae: Slice the fruits and spoon them into dessert dishes. Top with a scoop of cottage cheese and drizzle with KRAFT French Dressing.

California plums, peaches, Bartlett pears, nectarines . . . the pick of your salad bar.

CALIFORNIA TREE FRUIT AGREEMENT

JULY IN YOUR GARDEN:

Man the hoses to beat the wilting effects of all-out summer heat. Then consider a new better-mannered dwarf rosemary

You and the garden hose have to take over for nature now, since California is blessed with blue skies and golden hills but no summer water. Fortunately, long evenings (the pleasantest hours of the day) offer ample time to tend the garden. At 5 P.M., after-work gardeners still have almost 4 good hours left to water, mow, pick vegetables, or just relax on a midsummer's eve.

Consult the check list if there are empty spots left to fill with flowers and vegetables. Or try herbs with double purposes, like the new rosemary mentioned on the next page.

The doors are open at AAS display gardens

If you live near or happen to be in Grass Valley, Sacramento, Walnut Creek, San Francisco, San Jose, San Luis Obispo, Lompoc, Arcadia, or San Diego, you're close enough to one of California's All-America Selections display gardens to take an easy day's outing. More than 130 gardens in the United States and Canada welcome visitors.

Bring your camera and a notebook to take home ideas for your own garden. Right now you can catch many of the 1979, 1980, and 1981 award-winning flowers and vegetables at their peak of performance. For a list of display gardens, send 25 cents and a stamped, self-addressed business-size envelope to *Proving Grounds*, All-America Selections, 1186 Los Altos Ave., Los Altos, Calif. 94022.

A special book for old-rose seekers

Last April, Barbara Worl and Heather Johnson, active members of the Heritage Rose Society in northern California, published *Garden Open Today*, a booklet for society members and friends who wished to visit gardens where old roses grow. Anyone interested may order a copy of the booklet.

Charmingly written and illustrated, the booklet will introduce you to other dedicated gardeners in California and Oregon whose special interest is old-rose varieties. You'll probably want to take a copy on your summer or fall travels: it lists 67 locations from southeast of Los Angeles to Portland. One note: dates in the book are based on spring blooming periods, but several varieties repeat bloom in September or October. Private homeowners may welcome you any time if you call first and inquire.

To order a copy, send $5.01 (includes tax and mailing) to Sweetbriar Press, 536 Emerson St., Palo Alto, Calif. 94301.

Getting rid of plant-munching caterpillars

Geranium budworms wreaked havoc with the petunias in George Wilden's Chico, California, garden until he started a regular program of treatment with Dipel. This and equivalent products, such as Biotrol and Thuricide, are biologically derived insecticides containing *Bacillus thuringiensis* (BT), a specific caterpillar-killing bacteria. With weekly applications of this insecticide, plants show little budworm damage.

To be most effective, it's important to keep plants coated with the substance during the growing season. This means ground-level instead of overhead watering, since sprinkling washes off the protective spray. Take a look at the soaker Mr. Wilden devised (shown in the photograph below): it's a hose-end bubbler covered with a tennis sock to convert the water flow to a gentle ooze.

Use BT to control these two July nui-

Sunset's
GARDEN GUIDE

Bearded iris are her top performers

Year after year, Gloria Selby enjoys masses of reliable spring color like this in her El Monte, California, garden because she gives bearded iris a prominent role.

From rhizomes planted this month (see page 186 for instructions), bearded iris are easy to grow in all northern California climates—just take them for granted. The fat rhizomes store water, permitting plants to grow with little care and almost no summer water.

Sizes range from 6 inches to 3 feet (she's kneeling in the photograph), and the fluted, fringed flowers come in combinations of all colors except red. Buy bearded iris now from nurseries and mail-order specialists, or ask a friend for rhizomes when plants are divided this month.

Sock-covered bubbler *(lifted off the ground here) makes a home-style soaker hose for watering budworm-prone petunias*

Sunset's GARDEN GUIDE

Lining the walk *is 'Huntington Carpet', a dwarf rosemary that stays low and dense. Upright 'Blue Spire' rosemary stands up behind it*

BILL ROSS

sances as well: cabbage loopers, which munch on beans, beets, lettuce, spinach, and tomatoes as well as cabbage; and tomato hornworms. Check the label before buying to see if the insecticide is appropriate for the plants you have in mind.

When damage is fairly light, the easiest control is still the old hunt-and-pick method. If you spot lots of holes in plant leaves (and characteristic droppings) but no visible worms, you should be able to catch them in the act during a night raid with a flashlight. Pick caterpillars off the leaves while they're eating and squash them. Or knock them into a container, seal it, and send them out with the trash. (Better yet, feed them to the neighborhood chickens and ducks.)

A new dwarf rosemary called 'Huntington Carpet'

Dwarf rosemary ranks high on the list of valuable ground covers for California gardens. It's hardy, drought-tolerant, and great for covering dry slopes or spilling over retaining walls. And it offers a steady supply of aromatic leaves to stir into the stew pot.

But, for all their merits, the two popular kinds—*Rosmarinus officinalis* 'Prostratus' and *R.o.* 'Lockwood de Forest'—have a trait some gardeners object to. With age, plants tend to get bunchy-looking and develop a crown of woody stems instead of staying low, flat, and full. Another variety, just recently introduced, offers some improvement.

R. o. 'Huntington Carpet', developed at the Huntington Botanical Gardens in Southern California, is a freely branching compact grower. It grows about 18 inches high—half the height of *R. o.* 'Lockwood de Forest', one of its parents. Growth is fast: the plants in the photograph above started from seedlings in 4-inch pots only three years ago.

For quick cover, space plants 1½ to 3 feet apart in full sun. Poor soil isn't a problem as long as it's well drained. They'll need watering the first year, but once established, plants can take care of themselves. □

JULY CHECK LIST: *Much planting, maintenance to do*

☐ **Clean up fruit trees.** To minimize the chances of brown rot infection, gather fallen apricots, peaches, and plums (as well as any mummified fruits on branches), and throw them in the garbage. Thin developing apples, peaches, and pears if trees seem overloaded. Keep 2- by 2-inch (or stouter) posts on hand to prop up fruit-laden branches.

☐ **Feed flowers and vegetables.** Summer producers—annuals, fuchsias, hydrangeas, roses, tuberous begonias, and vegetables—can use fertilizer this month unless you applied slow-release fertilizer at planting time. Flowers in pots and hanging baskets thrive with a light dose of plant food in every watering. Dilute accordingly: for example, if you water twice weekly, divide the monthly dose by 8.

☐ **Groom, prune, tie up.** Pick faded blossoms to keep annuals blooming. You can prune or shear straggly petunias, sweet alyssum, and verbena fairly heavily to give them another go. For plump chrysanthemums this fall, tip-pinch new growth this month.

When you've finished harvesting raspberries and blackberries, cut back this year's fruit canes and tie up vigorous new canes (next year's producers).

☐ **Look for insect, snail damage.** Night-feeding habits make it hard to see who's munching in your garden. You may be betting it's earwigs when in fact it's tiny slugs or fat caterpillars. The best way to check: at night (after 2 or 3 hours of darkness) with a flashlight. See item on page 167 of this guide for more tips on caterpillar control.

☐ **Plant for summer, fall color.** You can still plant several kinds of flowers this month for a late show. Good choices include ageratum, celosia, coleus, cosmos, chrysanthemum, marigold, portulaca, salvia, sweet alyssum, verbena, and zinnia. Look for young plants; avoid rootbound or leggy plants that have been on the nursery bench too long.

☐ **Plant vegetables.** A July Fourth sowing of beans and corn may still produce a hefty fall crop, since most areas of northern California still have three, even four, months of good warm weather left. You can also plant a late crop of cucumbers and summer squash (from seed) or tomatoes (from transplants). Get started on fall vegetables by sowing seeds of broccoli, cabbage, leeks, and lettuce in flats to set out later. Sow beets and carrots directly in the ground.

☐ **Propagate.** In most areas, this is the month to increase your collection of bearded iris. An article on page 186 shows you how. Start seeds of perennials and biennials you'll transplant into permanent beds this fall (to bloom next spring). It's also a good time to take stem cuttings of fuchsias, marguerites, and other favorites.

☐ **Water and weed.** The success or failure of a vegetable garden usually hinges on how effectively you water. Right now, be sure plants get regular deep soaking and don't ever reach the wilting point. The same is true for azaleas, camellias, and rhododendrons: they're setting next year's flower buds now and shouldn't be stressed.

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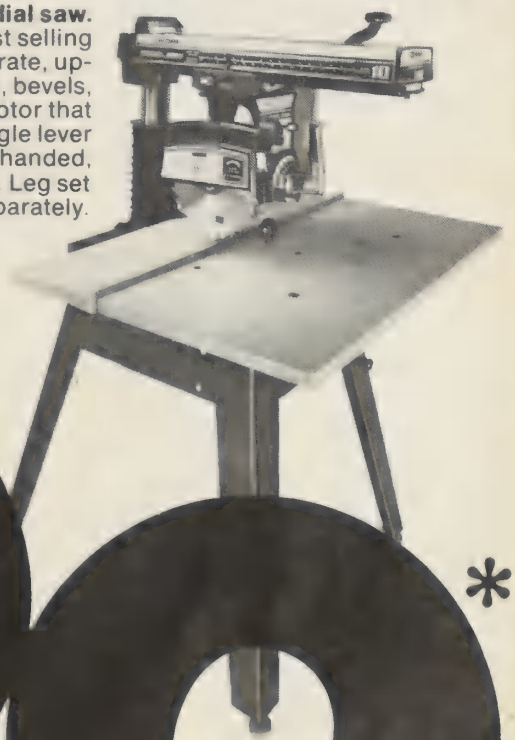

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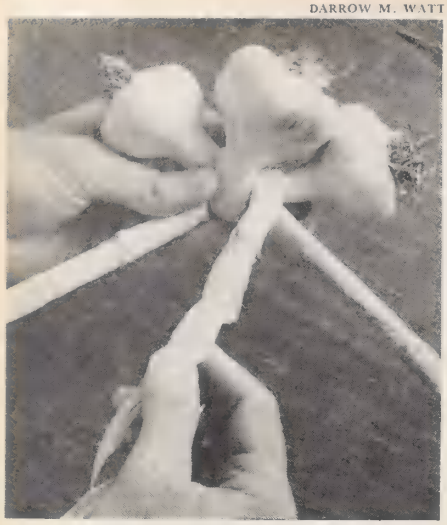
On Sale June 29–July 19.

DARROW M. WATT



1 • *To start a braid, wrap stem of the center garlic around crossed stems of the other two bulbs*

2 • *Add another bulb (two if small) each time you braid an outer stem into the center. Place each bulb with best side forward. Pull stems tight; they loosen as the braid dries*

3 • *Wrap and tie braid with string when 12 to 18 inches long*

JOHN MARRIOTT

Gardener's trophies, *braids are ready to hang in the kitchen or pantry. Or you can store peeled cloves indefinitely in oil or frozen as garlic butter*

The garlic grower's rewards... how to dry, braid, store

Garlic harvest time arrives soon. When you can see sections forming in a cut-open bulb, it's time to stop watering. And when leaves are mostly dry, it's time to dig bulbs up—carefully, with a garden fork, so that you don't crack the necks. Here are pointers about curing and storing garlic.

Braiding is a favorite way to keep garlic. It's picturesque and practical, and it doesn't take much longer than just tying the bulbs in clumps. Before braiding, dry garlic in sun for about two to four weeks; stems should be quite limp and flexible, but not brittle. Rub off any dirt or badly stained outer skins. Then begin with step 1 at upper left.

If stems begin to elongate for bloom before the harvest, they will always be too stiff to braid. To get the same effect, arrange the bulbs in braid formation and bind the stems together with twine, as we did with the elephant garlic clump at left in the large picture above.

When you finish braiding or binding, each bulb should be exposed to air on most sides. You may want to keep some bulbs loose for current use to delay cutting into your braid.

Whether you braid or not, it's important to dry your garlic thoroughly. Bulbs stored with centers still moist will mold prematurely. Cover or move drying bulbs as needed to protect them from fog or dew. Cut open a bulb to be certain sheaths in the center are dry and papery. Then move bulbs indoors for long-term storage. A cool, dry, dark place is best, but most cooks settle for the kitchen.

Peeling and storing

The tight little sheaths around each clove dampen many a garlic fan's enthusiasm. You can crush unpeeled cloves through a garlic press with scarcely a smidgen of waste if you place the clove flat against the holes. With large quantities, the press becomes sticky, and it's easier to just split the skin open by crushing cloves with the flat of a knife blade.

Some people like to store peeled cloves in oil, then use either the oil or the cloves for flavoring. Replenish the oil to keep the jar full and cloves submerged.

Adventurous garlic fans may want to try immature, undried bulbs now as a vegetable, raw or sautéed. □

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So get rid of the Bland. And get the Blends from Purina.®

THE PURINA® BLENDS

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NORMAN A. PLATE

Drip-irrigation *tubes lead to each pot. This one holds a rex begonia*

RICHARD AUDSLEY

Owners luxuriate *in spa surrounded by healthy begonias*

Indoor begonia garden ... their spa provides the warm moist atmosphere

The most inventive portion of Dr. Ernest Weitz and Carol Clements' garden in Kentfield, California, is indoors. They use their whirlpool spa room to display prize-winning, humidity-loving begonias. The same approach would work with other moisture-loving plants if you already have or plan to install an indoor spa or hot tub.

As their fiberglass spa churns with massaging bubbles, it raises the humidity in the spa room to levels that produce tuberous begonias with extra-large flowers and near-perfect large-leafed rex begonias. The normal daily filtration of the water keeps the room's humidity high—60 to 90 percent, depending on the time of year. Cost: 18 cents a day for electricity.

The plants are watered through an automatic drip irrigation system shown in the photographs at left and below. It waters and fertilizes through use of a small, simple "injector"—Dr. Weitz pours powdered soluble plant food in the little jar, screws it to its cap, and turns on the system for 2 minutes, metering fertilizer into the water. He adds fertilizer once every two weeks in summer. His water bill has been reduced by the drip system from $165 every two months to $37.50.

The potted plants sit on heavy wire mesh stretched across sheet-metal troughs. Excess water drains into the troughs and is collected in a bucket at one end to be reused. □

Bark chips *hide wire mesh under pots. Water drains from plants into metal troughs beneath the wire mesh*

Fertilizer injector, *which feeds plants while they are watered, is installed in drip system between electric valve and filter*

How can you make your houseplants fuller, greener, healthier?

Just let the Knox® out of the box.

Knox Unflavored Gelatine has no artificial ingredients. What it does have is a rich supply of nitrogen. And nitrogen is what houseplants need most to flourish.

Easy to use, too. Just mix one envelope of Knox with one cup of hot tap water to dissolve. Then add three cups of cold water to make a quart of liquid. Prepare only as much of the mixture as you plan to use at one time. Once a month, use the Knox mixture as part of your normal watering and feeding pattern and it will provide continuous nourishment to plants between applications. You'll see the same amazing results we saw in our scientific studies.

And remember to give your plants plenty of growing room by repotting them periodically into larger pots.

For fuller, greener, healthier plants, water them. Love them. Talk to them. And nourish them with Knox.

NORMAN A. PLATE

Like little balloons, *plump buds (lower right) of balloon flower open to 2-inch lavender-blue stars with deep purple veining*

"Balloons" that burst into blue stars

Lavenders and blues are always soothing in the garden, the more so as the weather warms up. Balloon flower (*Platycodon grandiflorus*) comes into bloom just as you are mourning your last blue bearded iris; if you keep faded blooms cut off, it will flower through late summer. Lucky gardeners may find container plants in bloom now. If you can't find them, buy seed from a catalog and sow now for bloom next year.

Balloon flower, a hardy perennial, needs average to good garden soil with excellent drainage, sunlight where summers are cool, and light shade in hot interior climates. Its problems are few: Because stems are late to sprout in spring, they can be damaged by careless hoeing around more advanced neighboring plants. The weight of buds and blossoms can topple stems. A few light stakes will mark the clump location and serve as supports later on.

Start seeds in a sterilized mix of equal proportions of good garden soil, sand, and peat moss, or use a commercial potting mix. Don't cover seeds, and keep mix damp (not wet) until seeds sprout. Transplant to small individual pots when seedlings have two sets of true leaves; set out in the garden when roots fill the pot. Seedlings will give some variation in color—possibly even white or pink—and plant height (to 3½ feet). Choice forms can be divided with care when growth starts in early spring. □

Finally a breakthrough!

The weed and grass killer that does it all.

Totally versatile. ORTHO's new KLEENUP® Systemic Weed and Grass Killer kills both weeds and undesirable grasses like quackgrass, orchard grass, and bermudagrass. Spot-kills or removes whole patches. For trimming edges of lawns and driveways or cleaning up weeds around trees, shrubs, fences. Or for replacing an entire lawn.

Kills roots and all. KLEENUP penetrates the leaves and works through the plant's system to kill annual and perennial weeds and grasses, roots and all. Mix KLEENUP with water, spray, and in 2 to 4 weeks those weeds and grasses will be dead.

Re-seed a lawn in 7 days. When the chemical in KLEENUP comes in contact with the soil, it deactivates. You can re-seed in only 7 days. Follow standard re-seeding practices. KLEENUP kills both weeds and grasses (including the tough ones), roots and all. Talk to your ORTHO dealer.

ORTHO
Chevron Chemical Company

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No tick and flea collar claims better protection than one of these:

And it can save you two of these:

The Pet'm flea and tick collar for dogs and cats is generally priced about a dollar less than other brands which do no more. It gives up to five full months of flea and tick killing power. And you can save enough on a single purchase to buy three cans of soup!

If ticks aren't a major problem in your area, buy the Vaporette Super II collar. It kills fleas up to four months. Kills ticks up to one month and aids in control another month. Yet it's priced about 40% less than similar collars.

If fleas are the only real problem in your area, the Vaporette collar for dogs and cats is our least expensive. It gives up to three months flea killing power. Aids in tick control. And it's generally priced far lower than comparable collars.

Pet'm/Vaporette collars are made by one of the world's largest makers of flea and tick collars. And each carries the Good Housekeeping Seal. They are good. And they're good buys, too!

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Look for these other fine Vaporette products: Super II Flea and Tick Shampoo and Flea and Tick Powder.

GLENN CHRISTIANSEN

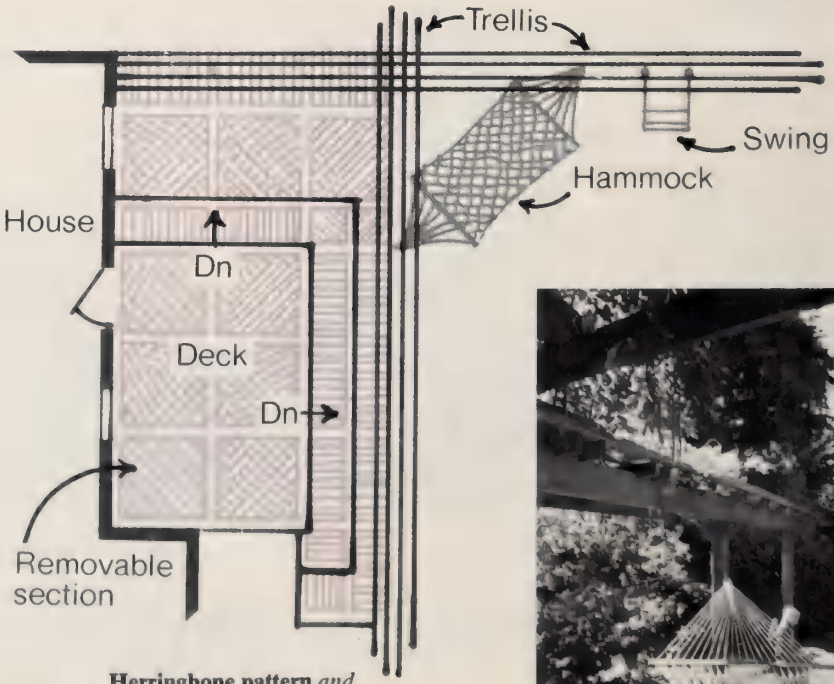
Open above, *trellis gives deck feeling of enclosure. It lets in sun until late afternoon, then shades windows*

Outdoor living place…deck and trellis does it

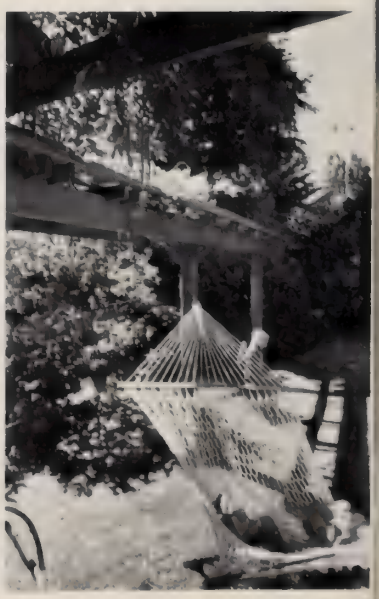
This floor-level deck creates both an outdoor living area and a pleasant transition from house to garden. Narrow wisteria-draped trellises run across the front of the deck and along one end. The trellis at the end extends 16 feet into the garden, where it supports a swing and anchors one end of a hammock.

Seattle landscape architect Thomas L. Berger designed the deck-trellis system for his own garden. He kept most of an old concrete slab patio as a base for the deck and built over it a frame of 6 by 6's with a herringbone pattern of 2 by 3's in 4-foot-square sections. One section is removable, with room underneath to store a hose. The 2-foot-wide steps are 6 by 6's that edge 2-by-3 crosspieces.

The 2½-foot-wide trellises are made of 2 by 8's, 2 by 6's, and 2 by 4's, with 2-by-3 trim. Posts are 6 by 6's held to the bottom step by metal straps and bolts. For strength and stability, four pairs of 2 by 6's run from the trellis back to the house, where they're tied into the eaves. □



Herringbone pattern *and 6-by-6 dividers give deck strong, decorative lines*



No trees *to stretch a hammock between, but trellis posts do nicely. Beam supports swing*

Owens-Corning Fiberglas Roofing Shingles. Guaranteed protection into the 21st century.

When the warranty on most ordinary shingles has expired, the warranty on Owens-Corning Fiberglas* shingles still has years to run.

Why? Because they're Fiberglas shingles.

They won't absorb moisture. So they won't curl. Won't blister. Won't buckle.

And they've got 20% more weatherproofing material.

That's why they'll still be keeping your house dry, even when the 21st century has arrived. It says so right in the Owens-Corning limited warranty, which is prorated on the basis of age and replacement cost for the original owner.

They also come with a U.L. Class-A fire rating—the very highest rating in the industry.

It's your house. It's your money. So speak up and ask for the shingles that last. And last. And then last some more.

Owens-Corning Fiberglas shingles.

For more information, write: I.Q. Meeks, Owens-Corning Fiberglas Corp., Fiberglas Tower, Toledo, Ohio 43659.

*T.M. O.-C.F. Corp.
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OWENS/CORNING FIBERGLAS

Instead of a conventional sliding aluminum patio door, consider this.

The Atrium Door®.

It fits the same space as a conventional sliding aluminum door. And it gives you the same great view. But that's where the similarity ends.

On looks alone, the Atrium Door is a far better choice. But the real beauty of the Atrium door is its practicality. We originated the wood swinging patio door concept. It's far more energy efficient than any aluminum door. And far more secure.

Swings instead of slides.

Old style patio doors slide to open and close, a technique practically guaranteed to let in drafts. So, we made the Atrium Door swing open. You get the same tight fit you expect from your front door.

Aluminum is one of the best conductors of heat and cool around. So, the Atrium Door is made of the finest kiln-dried Ponderosa pine. Wood is a natural insulator. And edge-gluing virtually eliminates warping.

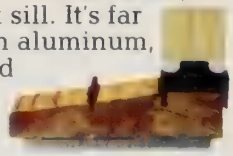
The secure clunk.

When the 1-inch deadbolt lock clunks into place, there's no question that the Atrium Door is far more secure than any sliding door using the broomstick-in-the-runner technique.

Lower utility bills.

Up to 30% lower as a matter of fact. Winter and summer. Double insulated glass with double butyl bedding dramatically reduce heat transfer. The wooden framework gives the tightest possible fit, and acts as a natural insulator — 1000 times the insulating ability of aluminum frame doors.

Then there's the 1¼" thick, glued Red Oak sill. It's far more rigid than aluminum, so it won't bend or twist. You always have a tight seal.



And, our edge gluing process minimizes warping and cupping.

The weather stripping is the best available. Certainly it's a little more expensive. But, it pays off in energy savings.

Special care every step of the way.

To make absolutely certain your door is built to the highest quality standards, every Atrium Door is fully assembled at our plant and signed by our craftsmen. That way, we can be sure that each door is properly sealed and fastened at all critical points. And, because it comes fully assembled, it's as easy to install as a conventional aluminum door.

Examine it closely.

To really understand the value and quality that go in the Atrium Door, you'll have to examine it yourself. Which you can do at our display at your building products dealer's store.

Once you examine the Atrium Door, you'll know it's the only choice for your patio door.

The Atrium Door®

The logical alternative to sliding aluminum doors.

MPI

For the name of your nearest dealer, call our toll-free number. 800-527-5249
In Texas Call (214) 438-2441

In downtown Lompoc, new flowers in a new display garden

Every July and August, Lompoc, California—the center of the flower seed business in this country—offers several thousand acres of brilliantly blooming flowers for public view. Most of the flowers are grown for their seed, which is sold all over the world. A few are grown experimentally.

At the recently completed Lompoc Civic Center, you can see for the first time labeled plants of the new varieties growing in the fields. Since field crops are unlabeled, the new display garden is the place to learn which plants are which.

The display garden is a cooperative venture by the city of Lompoc, Lompoc Valley Botanical and Horticultural Society, Robert Young Iris Society, and three seed companies—Bodger, Burpee, and Denholm. All-America Selections also are planted here.

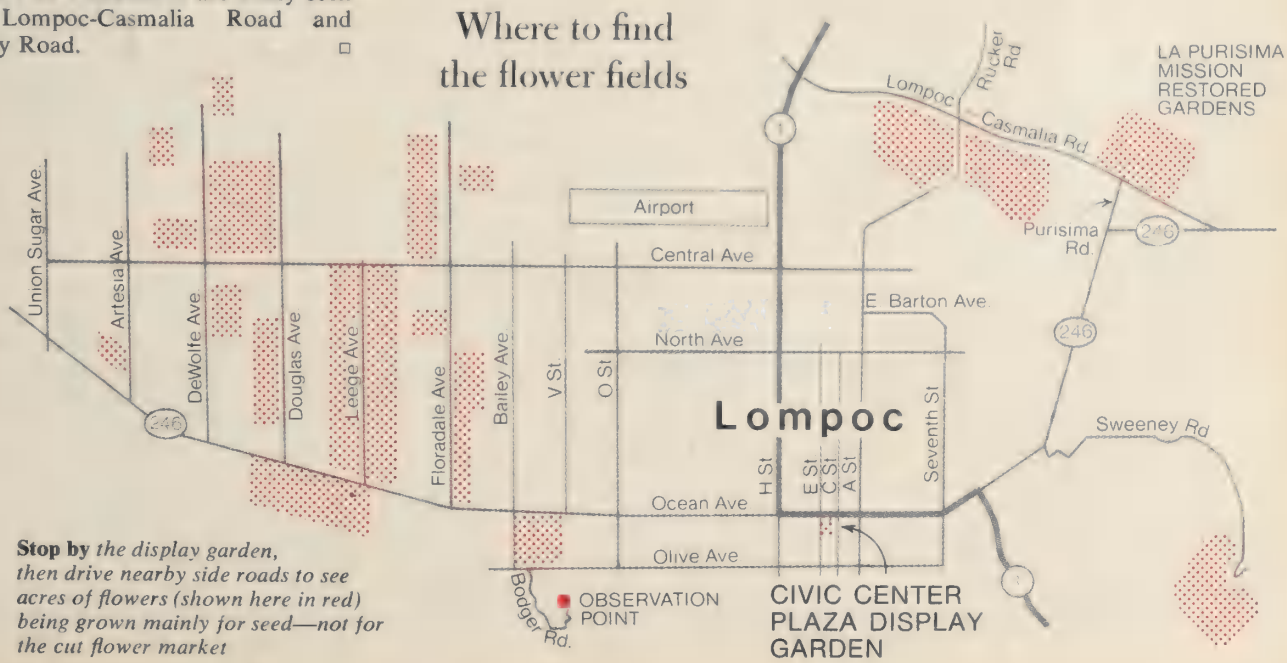
To get to the display garden from U.S. 101, drive to Lompoc on State Highway 1 or 246. Go west on Ocean Avenue to Civic Center Plaza (between C and E streets) and turn left; the garden courtyard is in front of you.

To reach the flower fields, continue west on Ocean Avenue and explore side roads to the north. Other fields are easily seen from Lompoc-Casmalia Road and Sweeney Road. □

WILLIAM APLIN

Raised bed *is one of five in circular display garden at Lompoc's Civic Center Plaza*

Where to find the flower fields



Stop by *the display garden, then drive nearby side roads to see acres of flowers (shown here in red) being grown mainly for seed—not for the cut flower market*

Window panels *of shadecloth go on greenhouse spring through summer. Roof panels stay on year-round; they're elevated to reduce heat accumulation inside*

Light is softer *since 73 percent lath-pattern shadecloth replaced wooden lath overhead. Plants, including bromeliads and staghorn ferns, showed an immediate improvement, say Los Angeles owners Elmer and Joyce Lorenz*

WILLIAM APLIN

Shadecloth

It can do very agreeable things for plants and for people

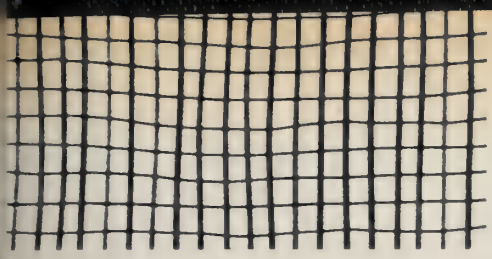
When you want shade fast, shadecloth may be the solution. It's that black or forest green mesh fabric that professional nurserymen use by the acre over growing grounds and greenhouses.

Homeowners use it not only to shade plants as the pros do, but also to shelter patios, dog runs, chicken coops, aviaries, corrals; atriums; skylights; and windows.

How does it look?

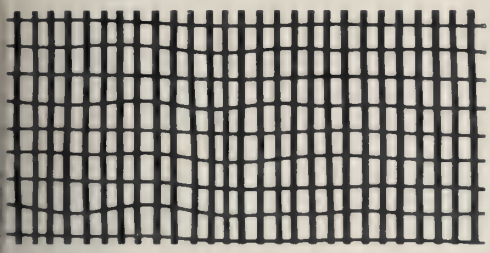
From the outside, the black or dark green plastic fabric can look out of place, particularly if your house and surrounding structures are light colored and there are few plants to soften the merger. Against medium- to dark-colored structures or plants, however, both black and green are surprisingly unobtrusive. In some areas, other colors are available.

From the inside looking out, shadecloth is delightfully easy on the eyes. You can still watch the moon or see treetops through it, and patios or other areas beneath it stay brighter than with most other patio roofing materials.



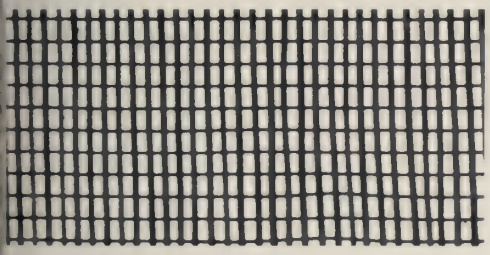
47%

Low-density *weave is useful for plants that like bright light: cactus, succulents, vegetables, seedlings. Strands tend to separate easily. Cost is 20 to 30 cents a square foot*



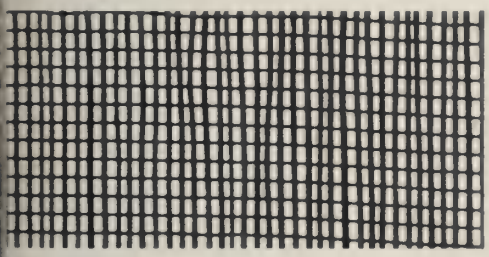
55%

Popular *on the coast with growers of fuchsias, ferns, cymbidiums; inland they recommend 63 to 73 percent. Polypropylene costs 23 cents, saran 34 cents a square foot*



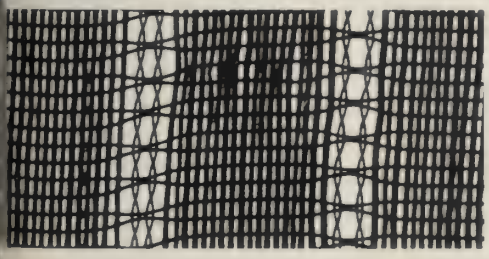
63%

Used to shelter *a general mixture of foliage plants. Polypropylene also comes in lath pattern, costs roughly 25 cents a square foot. Saran is about 40 cents*



73%

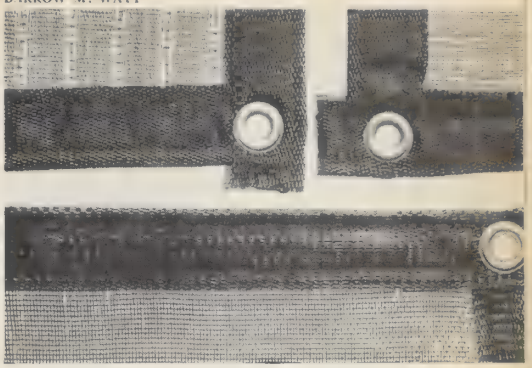
Good choice *for patio roofs in coastal California, for side walls of patios, and to shelter most shade-loving plants. Polypropylene costs about 30 cents a square foot, also comes in lath weave shown below. Saran is 45 cents*



80%

Both lath *and uniform weaves are popular for patio roofs, especially in inland California and desert. Also used for aviaries, corrals, windbreaks. From 40 to 60 cents a square foot*

DARROW M. WATT



Heavy-duty tape *and grommets spaced 6 to 12 inches apart or to your order can finish any density of cloth. Same-fiber thread makes seams durable*

Best of all is the soft, even light shadecloth gives—no glare, no heavy zebra stripes. Even the ribbed style (called lath) casts a fairly even pattern.

How durable?

How long shadecloth lasts depends partly on your climate and how well you anchor the edges. Manufacturers and dealers give cautious figures for its lifespan, maybe 5 to 10 years. But we know a San Fernando Valley patio roof that's 25 years old and in good condition; roofs frequently last 15 years. However, as the cloth ages, any stress from wind or falling objects can damage it quite easily.

Green, black, other? Color's not the only difference

Commercial growers (and knowledgeable plantsmen) usually choose black rather than green shadecloth.

Black shadecloth is made from polypropylene, which shrinks about 1 percent. Green shadecloth is usually made from saran and shrinks 3 to 6 percent, primarily in length. If you install it taut, it will rip when hot weather comes and can even damage its supporting structure. Green also costs about 50 percent more.

On the other hand, saran is more fire resistant than polypropylene; it melts but won't burst into flame. Polypropylene also resists burning (smudge pots in nurseries have melted holes in it without starting a fire), but it will spread flames in a fire.

To add to the confusion, some green shadecloth is made from polypropylene. But without the black additive, polypropylene is far less durable, suitable only for unstressful places such as patio or tennis court walls.

Most companies no longer make shadecloth in other colors because they deteriorated much faster outdoors. But a firm in Phoenix produces a patented material it says is twice as durable as polypropylene or saran, yet does not shrink or stretch. It comes in white, yellow, gray, brown, blue, black, and green, all 80 percent weave. Cost is 25 to 50 cents a square foot.

Still another sun-screening fabric is made from fiberglass. It won't shrink, unravel, or burn and comes in many colors, but it breaks far more easily than saran or polypropylene. We recommend it mainly for greenhouses.

What density to buy, and where

Both black and green shadecloth are now frequently available at nurseries and discount stores. They're usually sold either by the foot or yard from rolls 6 feet wide, or in prepackaged panels from 6 by 10 to 12 by 12 feet with edges taped and grommeted.

You can also order pieces cut and sewn to your specifications through nurseries or greenhouse suppliers, or from these mail-order distributors: Canopy Craft, 1618 W. Camelback Rd., Phoenix 85015; (602) 264-9972 (patented colored fabric). Jacobs Brothers, 8928 Sepulveda Blvd., Sepulveda, Calif. 91343; (213) 892-1121 (saran, poly). Wind and Shade Screens, Inc., Box 681, Solana Beach, Calif. 92075; (714) 481-6064 (saran, poly, fiberglass). They will recommend a density to suit your specific needs.

Photographs and captions above left show the five most popular densities of shadecloth and suggest which to use for different climates and situations. Light under all weaves appears far brighter than shade density would indicate, because of light coming in from the sides.

One convenience of shadecloth is that it can span up to a hundred feet with nothing but a sturdy perimeter support structure; interior beams and rafters are not essential. By lacing grommeted edges to the supporting framework, you can easily loosen cords as shrinkage occurs.

For smaller spans and using nonshrinking fabric, you can staple or nail fabric in place through edges that have been taped or rolled over several times, preferably around a batten. For easy removal, attach grommeted panels with S-hooks, or use panels like those shown at far left. □

Wipe-your-brow weather means fast growth. If you're thirsty, plants are thirstier

Sunset's MOUNTAIN STATES GARDEN GUIDE

July means heat to high-elevation gardeners. Plants are growing at a rapid pace, and keeping them going means careful attention to watering, mulching, and feeding. Keep at it, and your hard work will pay off in a bountiful harvest next month.

For a different look, try planting trees in clumps or angled—or both

As a nurseryman, Larry Schlickenmeyer of Arvada, Colorado, knows that nurseries often have trouble selling trees with bent trunks or those that have sprouted extra stems. In his own garden, however, he's made three of these unsold trees with crooked trunks a point of interest.

Mr. Schlickenmeyer dug one hole large enough to hold the rootballs of three container-grown trees. To make this

DAVID STUBBS

Rootballs touching, *three Chinese catalpas set at angles in one hole will make a natural-looking clump planting in Larry Schlickenmeyer's garden in Arvada, Colorado. Designer: Alan Rollinger*

CHECK LIST: *Here are the July chores*

☐ **Divide perennials.** Divide and transplant anchusa, bleeding heart, and Oriental poppies. For dividing iris, see page 186. Divide rock garden plants past bloom—arabis, coral bells, candytuft, phlox, and sweet alyssum.

☐ **Fertilize annual flowers.** Apply a fertilizer high in phosphorus and potassium at the rate of 1 pound per 100 square feet. Water it in thoroughly.

☐ **Fertilize vegetables.** Use a soluble fertilizer in irrigation water—or place a side-dressing of dry fertilizer in a trench alongside rows of vegetables.

☐ **Mulch like crazy.** Thicken up organic mulches as they break down to save water and keep weeds down. Use straw, pine needles, or black plastic around vegetables to keep fruit clean. See the item at right for an idea on mulching permanent plants.

☐ **Plant fall vegetables.** Early this month, make a second planting of beets, bush beans, corn, mustard, radishes, Swiss chard, and turnips. Plant winter squash among spinach; it will take over when spinach is harvested.

☐ **Remove faded flowers.** Pick faded blooms from roses, perennials, annuals, and ground covers to encourage plants to produce new buds.

☐ **Tend fruit trees.** Thin trees with a heavy set of fruit. Spread 2 to 3 pounds of high-nitrogen fertilizer around the base of each tree and water it in thoroughly. To control borers on peach, prune, and cherries, spray the bottom 3 feet of trunk with sevin or diazinon.

☐ **Water.** Keep up a regular deep watering program for lawns, shrubs, and trees.

DON NORMARK

When you harvest *Swiss chard (left), leave the root intact—you'll get more in two or three weeks. Tennis-ball-size head of cabbage (right) comes one month after the first harvest*

ımp of Chinese catalpa (*C. ovata*) look ɔn more interesting, he set the trees in ɔ ground at 25° to 35° angles.

hold trees in place while you choose ɔleasing angle, tamp 3 to 4 inches of l around each rootball. Then finish ing the hole.

ter planting, water thoroughly to set- soil around the roots. In a year or ɔ, the angled trees will start to grow ward, forming a picturesque arch.

nost any tree can be planted in a mp or at an angle. However, trees t send up many suckers (such as as- ı) usually form a clump naturally.

·uce and fir cones in the mulch ɔrove soil and garden appearance

rdeners Clari and Robert Davis lch permanent plantings around their ıver home with a mixture of large k chips (2 to 3 inches long) and small es from spruce and fir trees. The vises have discovered that the recy- l cones help acidify their garden's aline soil and give the mulch a more ıral, forest-like appearance.

rets to a long vegetable harvest

er growing a vegetable garden to ma- ty, it would be a shame to miss some he crops' excellence by not harvest- right. Here is how to pick four crops ripen this month:

ccoli. Remove side shoots when ·'re small and snap off easily.

ɔbage. When you harvest the first e head, leave a few leaves around base of the plant. In a month, the ıt will produce a second head that's ıis-ball size, dense and sweet.

Kale. Pick the small, tender leaves at regular intervals through summer and fall. Kale tastes best after a frost or two.

Swiss chard. Cut off the leaves and stalks just above ground level without injuring the crown. You'll have a second crop in two to three weeks.

Plant colchicums now for end-of-summer bloom

Colchicums (sometimes called meadow saffron or autumn crocus) are sold during a brief dormant period in July and August. Planted now, each colchicum corm will give you three or four lavender flowers 6 to 8 inches tall that will last until freezing weather. Set corms in the ground with tips 3 to 4 inches below the soil surface. Broad, glossy green leaves will appear next spring and die back by June. After a six- to eight-week rest, flowers will poke through the soil.

In nurseries, corms cost 50 to 70 cents.

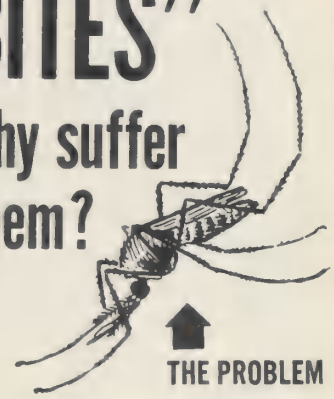
Mountain gardeners, it's time to enter Sunset's 1980 Garden Contest

Every year, *Sunset* reports on dozens of gardeners' successes—and sometimes their setbacks. Mountain gardeners face problems different from those of their low-elevation comrades—cold winters, short summers, intense sunlight. We'd like to hear how you surmount these.

Right now, our scouts are visiting and photographing contest gardens throughout the West for possible publication in future issues of *Sunset*. We're especially interested in food-producing landscapes, small-space gardens, and gardening on slopes. This fall, we'll be looking for coldframe and greenhouse ideas.

See page 188 for entry details. □

"MOSQUITO BITES" why suffer them?



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While others swabbed themselves with fly dope, smelling and feeling icky, we took two tablets and suffered much less than our companions. **B.R.P., Bedford, Ma.**

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For membership information, write Membership Department, Office of Public Affairs, The National Trust for Historic Preservation, 740 Jackson Place, N.W., Washington, D.C. 20006.

Sales, shows, trips, herb encounters

NORTHERN CALIFORNIA

Saratoga. July 6. Herb lecture and guided tour at Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 1:30 to 3:30. Fee: $3. Reservations necessary: telephone (408) 867-0307.

Santa Rosa. July 6 through 19. Annual flower extravaganza at the Sonoma County Fair and Exposition. Place: Hall of Flowers, County Fairgrounds. Hours: 10:30 to 10:30 each day. Admission to fair: $2; ages 13 through 16, 50 cents; 12 and under, free.

Mountain View. July 12 and 13. Annual fuchsia show and plant sale by the Santa Clara Valley branch, American Fuchsia Society. Place: Mayfield Mall, corner of Central Expressway and San Antonio Rd. Hours: 9:30 to 5:30 Saturday; noon to 5 Sunday. Free.

Sacramento. July 12 and 13. Annual show presented by the Sacramento Gladiolus Society. Place: Iva Gard Shepard Garden and Arts Center. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Saratoga. Herb workshop July 12, to be repeated July 26. Place: Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 9:30 to 3. Fee: $15 one person; $25 two people. Bring bag lunch and tea cup.

Daly City. July 26 and 27. Annual begonia show and plant sale presented by the San Francisco branch, American Begonia Society. Place: around the pool at Serramonte Shopping Mall. Hours: noon to 5 both days. No admission charge for the show.

San Leandro. July 26 and 27. Annual show and plant sale by the San Lorenzo Fuchsia Society. Place: on the mall, Macy's Bayfair, 15555 E. 14th St. Hours: 10 to 5 both days. Free.

COLORADO

Colorado Springs. July 19. The Horticultural Art Society presents a field trip on identifying native plants of the lower elevations. For information about assembly point and site location and to make necessary reservations, telephone (303) 635-1909 or 475-9267.

Denver. July 24. Terrace and garden tour presented by the Denver Botanic Gardens Guild. Hours: 9:30 to 5:30. Tickets available at the Botanic Gardens gift shop, open 10 to 4. For further information and ticket price, telephone the garden at (303) 575-2547.

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BEST FOR THE WEST
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Bearded iris need you nov

The low-water, nearly no-care champions of spring garden throughout the West, bearded iris are often taken for grantec Yet these perennials provide a bold flower splash in a sunn position—see the color photograph on page 166—in exchang for only a little effort on your part.

July is the time to plant new rhizomes or to dig, divide, an replant overcrowded clumps—when flowering starts to tape

DON NORMARK

1 • *Ready-to-divide clump will yield 6 to 8 plants. Dig and lift whole clump, then shake soil from roots*

2 • *Pull apart component plants —each consists of rhizomes linked like sausages*

3 • *Using sharp knife, cut apart individual "sausages," discarding old, woody ones lacking leaves*

7 • *To plant, dig 6-inch-deep hole with center ridge in prepared bed; mix in handful of bonemeal*

8 • *Part roots evenly in center; press rhizome into ridge (with roots draped to sides of hole). Rhizome elongates in direction of arrow*

9 • *Refill hole, burying roots and just barely covering rhizome. Plant 12 to 18 inches apart*

uly's the time to dig and divide . . . or to plant

off, about once every three years. This job is demonstrated here by iris hobbyist Duncan Eader of Arcadia, California.

Sturdy and versatile, bearded iris need little other care. They usually require one or two summer waterings and three feedings—at planting time and just before and after bloom. They are perfect in tall (3-foot) varieties for the rear of beds, and in smaller sizes for banks, rock gardens, and the front of beds.

If you already have a planting of bearded iris that is crowded, start with step 1 at left. If you have new rhizomes, skip the first six steps. Details on care are contained in the *Sunset New Western Garden Book* (Lane Publishing Co., Menlo Park, Calif., 1979; $9.95).

To buy rhizomes, check your nursery this month and in August, or try a mail-order specialist. □

4 • *Cut off bare tip of rhizome to make a clean surface. Trim leaves to 8 inches*

5 • *Cut off dead roots at tip of rhizome; trim any broken roots that remain*

6 • *If you don't plant immediately, store each variety for a week or two in labeled bag in a cool, dry place*

10 • *Firm soil with your feet. New clump was planted with rhizomes' trimmed tips facing each other*

11 • *Give a good soaking. Plants will grow away from each other, expanding size of this clump*

12 • *As the final touch, put in a permanent label with proper name. Water once again when dry*

DARROW M. WATT

To save water, *Heinz Koenig removed a path that used steppingstones with dichondra between them (at left) and replaced it with rocky "riverbed" in his San Jose, California, garden remodel. Another change: gazebo replaced raised bed*

Our garden contest is on. Let us see your achievement

Midsummer gardens—whether they flaunt flowers, vegetables, or good solutions to common problems—are the subject of our search in the 14th annual *Sunset* Garden Contest.

If your garden looks its best in July and August, we'd like to hear from you soon. This is the time of year when many Western gardens reach their visual peak, thanks to bounteous flowers and crops. Even if you don't win the contest, you may wind up in the magazine anyway, sharing your ideas with other Western gardeners.

Perhaps your summer landscape uses a water-stingy irrigation system. Maybe, like Heinz Koenig, whose garden is pictured at left, you simply got rid of plants that are thirsty in summer. Whatever makes your garden a treat during these months, we'd like to hear about it.

To enter the contest, send your name (as you want it printed on your certificate of participation), address, and daytime telephone number to Garden Contest, *Sunset Magazine,* Menlo Park, Calif. 94025. Include at least five color snapshots and a description of your garden. The best gardens will compete for cash prizes. Every entrant will receive a certificate of participation and a *Sunset* book.

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Door of 1940 Jotul #118

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WILLIAM APLIN

On tour *of Huntington Botanical Gardens in San Marino, California, bamboo society members study Dendrocalamus asper, a giant Burmese bamboo*

The bamboo word is getting out

The Bamboo Society of America was formed October 20, 1979, to encourage research into bamboo culture and to encourage planting of bamboo for its beauty and for its many economic uses. The latter are too little known in America, and the U.S. Department of Agriculture, which once supervised research in this area, has not been seriously involved since 1965.

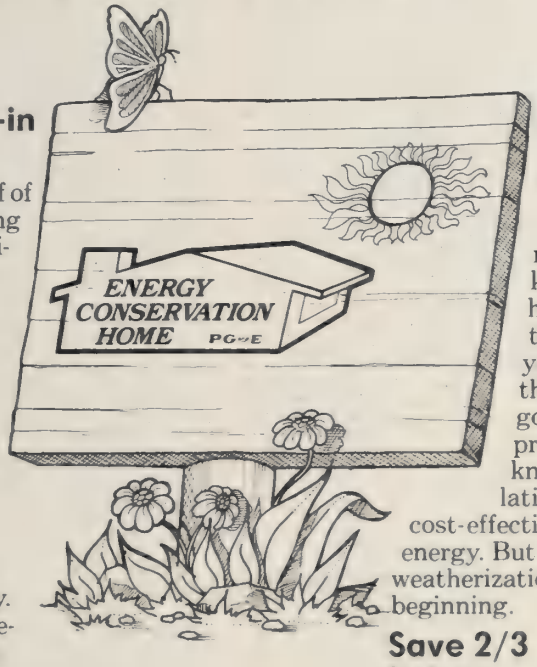
Through a quarterly journal, a library, and an herbarium, the society hopes to provide a clearing house for bamboo information. The first volume of the *Journal of the American Bamboo Society* has already appeared. The group also expects to aid in the introduction and dissemination of new bamboos through importation, establishment of a bamboo garden, and eventual distribution to other botanic gardens and nurseries.

A number of species have already been planted at Quail Botanical Gardens, 230 Quail Gardens Drive, Encinitas, California, and a total of more than 50 ha been collected for planting.

Dwarf *Sasa species suppresses weeds as a ground cover. Concrete curb extends below ground to keep it in check*

The membership fee of $8 per year i cludes the journal. To join, write to Ric ard Haubrich, 1101 San Leon Cou Solana Beach, Calif. 92075.

YOU DON'T HAVE TO SUFFER TO SAVE.



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If you're house- unting, look for a place with a sign out ront that says Energy Conservation Home.

Or build in comfort yourself.

If you're not in the market for a new home now, there's a lot you can do for the home you've got. As you probably already know, good insulation is the most cost-effective way to save energy. But insulation and weatherization are just the beginning.

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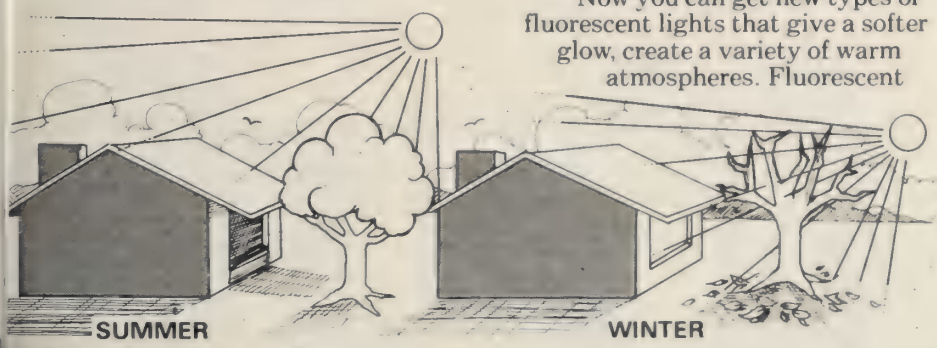
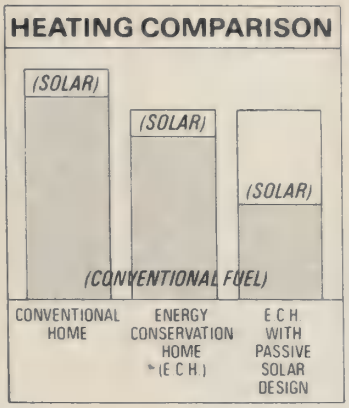


Take advantage of passive solar design.

Many Energy Conservation Homes put nature to work for them. They have plenty of south-facing windows to capture the sun's heat. In summer, roof overhangs or deciduous trees shade the windows from the sun. The trees drop their leaves in winter to make the most of solar heating. The sun cooperates by staying higher in the sky during summer and sinking lower in winter, to beam right in when you need it.



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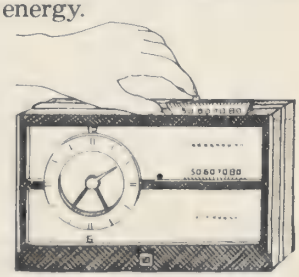

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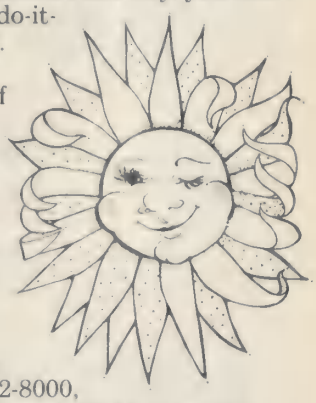

For names of participating builders call the PG&E Energy Conservation Center toll-free (800) 792-8000, 8 am to 6pm Monday through Thursday; 8 am to 5 pm Friday and Saturday. From area codes 805 or 714, call collect (415) 543-2073. Or write to PG&E Energy Conservation Center, 77 Beale Street, San Francisco, California 94106.

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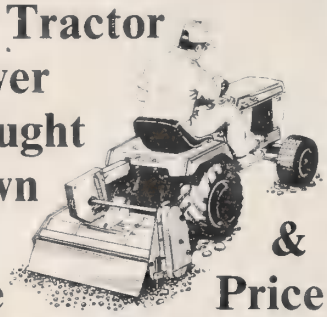

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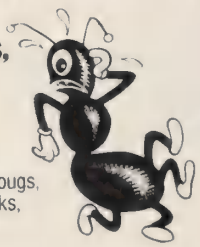

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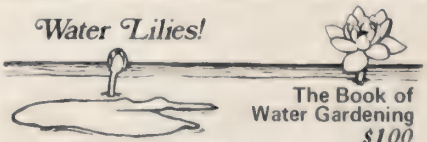

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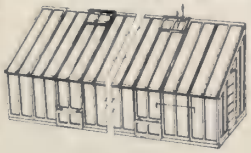

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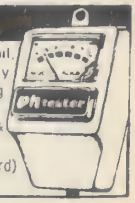

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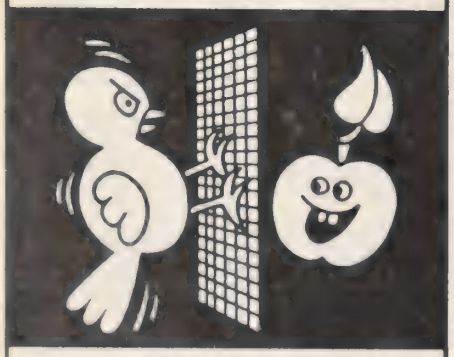

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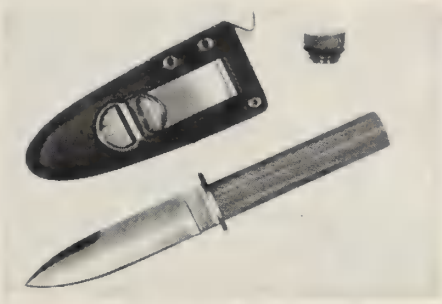

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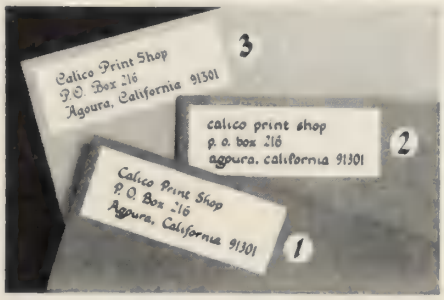

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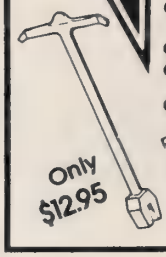

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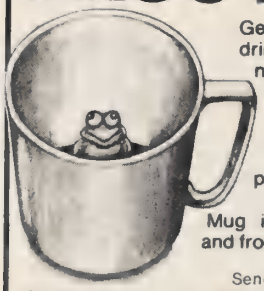

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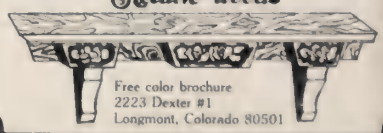

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On sunny days, woolly blue curls

ne of the most striking shrubs native mild, coastal California is woolly blue ırls or *Trichostema lanatum*. July or ugust is a good time to start plants or eds for bloom next spring.

he ¾-inch-long buds are curled like a ıail's topknot and covered with vel-ty hairs in an astonishing blue-to-agenta blend. Leaves resemble long ıttened rosemary needles, with a pleas-nt chaparral fragrance. Each upright anch is tipped with up to a foot of owers in dense whorls. Plants generally ow 3 feet tall and as wide—larger ith age. They're a knockout.

ou don't see these plants often, for rea-ons typical of natives: they're fussy to et started. But plants are becoming ıore widely available at native plant and ther specialty nurseries in Northern alifornia. If you can't find plants, you ın start seeds yourself. Near the coast, nce a plant becomes established you're kely to have frequent volunteers to give friends. In cold-winter areas, there's ttle information on how well they'll do.

or plants

hoose a spot in full sun, preferably on ıe south side of the house. Add as ıuch as three-fourths grit and gravel to layish soils to form a mound or raised ed about 1 foot high. Cover the top with inches of fine crushed gravel. Don't add ny fertilizer. Plant with the crown at r slightly above the soil surface, leaving no watering basin.

The better the drainage and the drier you keep woolly blue curls in summer, the longer lived and better blooming they seem to be. Water only as necessary to keep plants growing until winter rains take over. Then forget the plants near the coast; inland, water perhaps once a month in summer.

To start seeds

Seeds need some cold treatment before germination. Mix about ¼ cup *each* sponge rock and peat moss. Moisten it, then squeeze out the excess water until mixture is just damp. Mix it well with the seeds, put it in a plastic sack, and pop it in your freezer or refrigerator vegetable bin for about two months.

Toward the end of this period, check the mixture every few days. At the first signs of sprouting, scatter the seedy soil onto flats or peat pots filled with a very gritty soil mixture (add one-fourth to one-third fine gravel to a commercial soil mix). Move to larger pots when seedlings are a few inches tall; or, in mild climates, set directly into a prepared bed.

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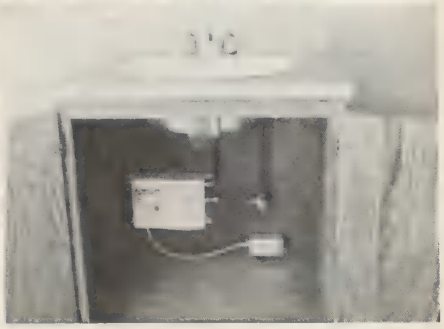

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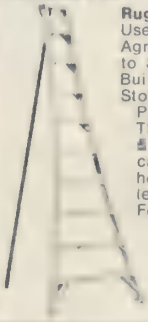

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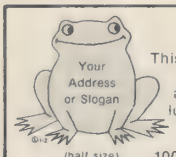

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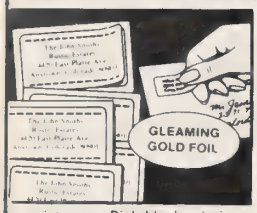

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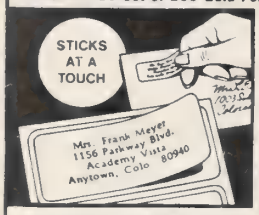

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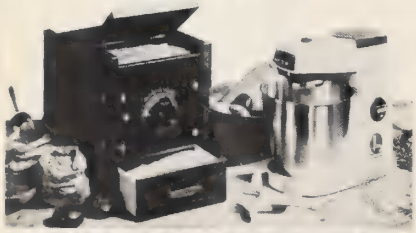

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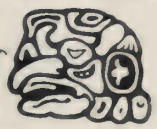

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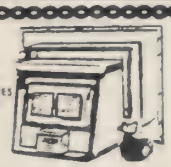

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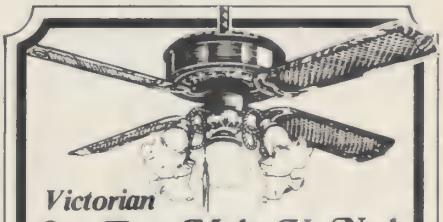

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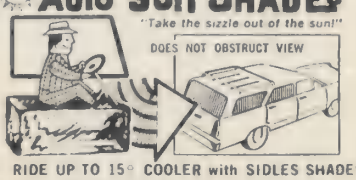

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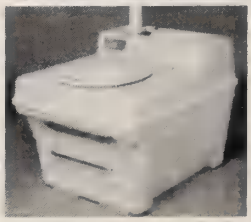

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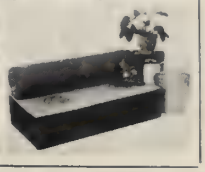

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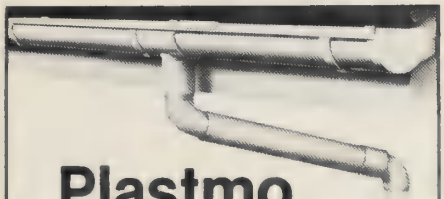

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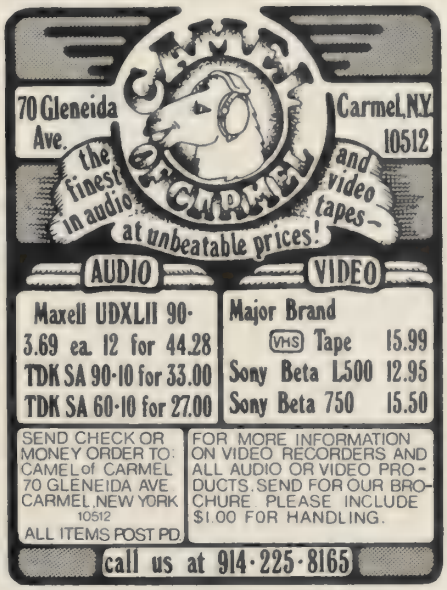

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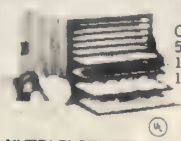

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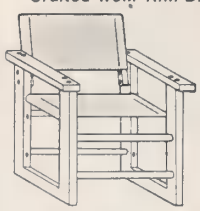

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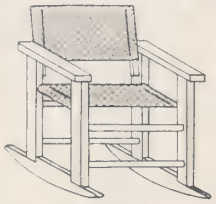

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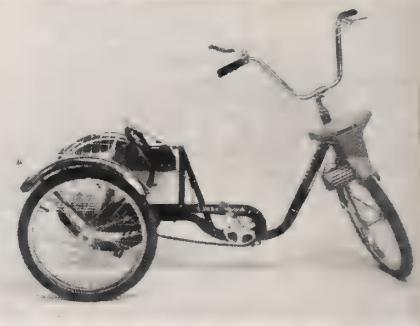

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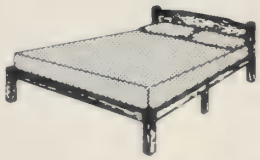

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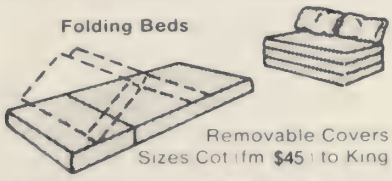

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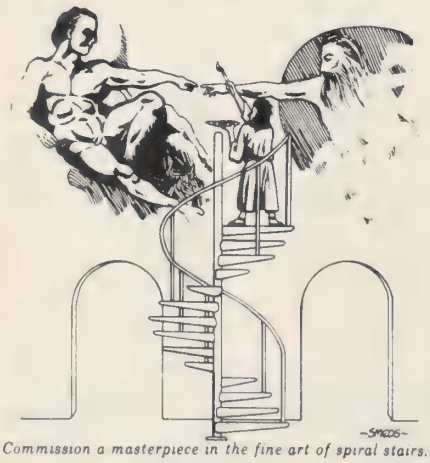

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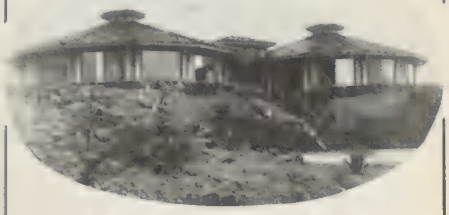

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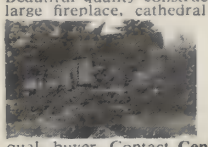

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LETTER FROM *Sunset*

1680-1980 tricentennial

Many visitors to the Southwest this month and next will encounte celebrations of a little-remembered historic event—one that remind that what we know of history can depend on who is doing the telling.

This is the 300th anniversary of what may rightly be called the *firs* true American revolution: fought not in 1776, but instead along th plains and mesas of Arizona and New Mexico a century earlier.

The Pueblo Indian Revolt of August 1680 sent the Spanish colonists i retreat to El Paso, the first time the Spanish Crown had lost hold o an entire province. The uprising much resembled the later America Revolution, hinging on resentment of foreign domination. One Crow program, *repartimiento*, sent Indians into forced labor. Another, *enco mienda*, required tribute in the form of corn and blankets to help sup port Spanish ventures—taxation without representation.

And worse, the Pueblos' complex and deeply personal religion, th pivot for their entire culture, faced sometimes violent persecutio Alerted and coordinated by runners sprinting from village to villag New Mexico's Pueblos—united for the first time in recorded history— rebelled on August 9, aided by Arizona's related Hopi and such forme enemies as Apaches and Navajos. The climax: a successful siege o Santa Fe ending on August 21 with the flight of the Spanish governor.

The Spanish finally reconquered New Mexico a dozen years later (mee ing little resistance), with more respect for Pueblo religion and lands.

This independent spirit still survives. Today's Pueblos (19 in New Mex ico, plus the Hopi in Arizona) are much like America's states—distin tive, but with common bonds. Many Pueblo people remain fluent i their Tanoan, Keres, and Zuñi languages (Tanoan, for instance, has n plurals, prefixes, suffixes, or contractions; verbs are built into nou instead of standing alone). Their traditional crafts are a major source o revenue; their religion flowers before visitors through dances and son on special feast days.

Each Pueblo governor possesses three symbolic Canes of Authori provided at different times by Spanish, Mexican, and American gover ments. Perhaps more important in a politically complex age, the Puebl have formally allied to achieve shared cultural and economic benefit One visible result is Albuquerque's striking new Pueblo Cultural Cent (see page 92 of the May 1979 *Sunset*).

You can see regular tricentennial events this summer on weekends Albuquerque's Pueblo Cultural Center (2401 12th Street N.W.), at Pec National Monument (about 25 miles southeast of Santa Fe), and Bandelier National Monument (43 miles northwest of Santa Fe); a daily at the Hopi Cultural Center, Second Mesa, Arizona (61 miles nor of Winslow). For a schedule of special events at the Pueblos themselve send 40 cents and a stamped, self-addressed envelope to the Tricente nial Commission, Box 1680, San Juan Pueblo, N.M. 87566.

The Pueblos established a legacy of courage three centuries ago th summer, and their enduring stamp on the Western landscape is wor some celebrating by all of us.

WINDOW ON THE WEST: *Freedom run*

Reenacting the run that alerted the Pueblos to action in 1680, Taos Indian Tommy Martinez—a New Mexico cross-country champion—holds knotted hide that timed the revolt. One knot was undone each night as a coordinated countdown to the August 9 uprising.

In commemoration, relay runners will leave Taos (where the revolt was planned) on August 5, passing each New Mexico Pueblo before reaching the Hopi village of Second Mesa, Arizona, on August 10.

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1 Tbsp. lemon juice
2 Tbsp. sugar
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½ tsp. dry mustard
½ tsp. grated onion

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Salad:

1 11-oz. can mandarin oranges, drained
1 bunch Romaine, Boston or leaf lettuce, torn
½ red onion, sliced
¼ cup slivered almonds, toasted
1 can Tender Chunk® ham, chicken or turkey, flaked with fork

Combine all ingredients. Pour dressing over and toss. Serves 4-6.

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1 10-oz. pkg. frozen broccoli, chopped
1 10¾-oz. can cheddar cheese soup
1 can Tender Chunk® ham, chicken or turkey, flaked with fork
1 cup cooked rice
½ cup sour cream
½ cup buttered bread crumbs

Preheat oven to 350°. Cook broccoli until barely tender. Drain well. Stir soup and sour cream together. Add remaining ingredients to soup and sour cream mixture. Spoon into 1½-qt. casserole. Sprinkle with bread crumbs. Bake 30-35 minutes. Serves 4-6.

Hot Hoagie Sandwiches

1 can Tender Chunk® ham, chicken or turkey, flaked with fork
¼ cup mayonnaise
¼ cup sour cream
2 Tbsp. chopped onion
2 Tbsp. chopped parsley
¼ tsp. garlic salt
3 Tbsp. butter
½ long loaf French bread

6 oz. cheddar cheese, grated

Combine first 6 ingredients. Slice bread lengthwise. Butter bread and spread with meat mixture. Cover with cheese and garnish with green pepper and ripe olives, if desired. Broil until cheese is bubbly. Serves 3-4.

Hormel

August 1980

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Sunset

The Magazine of Western Living

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The Toyota Corollas. Space has never been so beautiful. Or so accessible.

SPACE:1980

Sunset* The Magazine of Western Living*
THE PACIFIC MONTHLY *

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The Cover Story

These easily built plant stands are an attractive alternative to hanging containers for displaying trailing fuchsias—here 'Jerry Copley' (top), 'Jack Shahan' (center), and 'Novella' (bottom). Directions for this and other designs are on page 60. Cover photograph by Norman A. Plate

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ugust travel . . . in and beyond the West

splashy way to cool off

s summer heat shimmers to uncomfort-
ole heights, ways to cool off seem as
elcome as catnip to a calico. Two vari-
ions on the old swimming hole are the
ave pool, where you ride on motor-
iven surf, and the water slide, where
ou swish down a molded chute riding a
ishion of water. If you live in or near
enver or Salt Lake City, there may be
cooling splashdown close to home.

ach slide we list supplies you with a
astic mat and allows you, usually, 30
inutes of rides (about 10 runs, with
eeds up to 10 miles per hour on some
urses). All have lifeguard supervision,
it nonetheless require children shorter
an 42 inches to ride with an adult.

tip: wearing tennis shoes when you
ide can prevent scrapes on the feet.

lovis. *Clovis Lake Water Slides*, 11413 E.
aw Avenue. In Clovis Lake Park, this
and-new facility has two 350-foot flumes.
here are also picnic tables, volleyball
urts, and a baseball diamond. Park entry
$2 adults, $1 children 7 to 12, and $2.50
r half hour for the slide. Scheduled hours
e 9 to dusk daily, but confirm by calling
09) 299-4242.

lanteca. *Oakwood Lake*, 874 E.
oodward Road. This park has one of
e first water slides in the area and also
e of the longest—725 feet, with devilish
0° turns. There are eight slides here, plus
cnic tables, rental boats on the lake and
0 RV campsites. Cost is $2.50 per half-
our, plus park admission of $2 adults, $1
ildren 5 to 11. Hours are 10 to dusk daily.
rom Interstate Highway 5, take the Louise
venue exit and turn right (south) on
cKinley Avenue, then right on Woodward
oad and follow signs to the park.

ilpitas. *Splashdown*, 1200 S. Dempsey
oad. This park has four slides, varying
length and twistiness from a gently
anked 320-footer to a curvy 360-footer.
here are changing rooms, picnic grounds,
pinball arcade. Cost is $2.50 per half-hour,
to 9 daily. Splashdown is at 1200 S.
empsey Road in Milpitas.

edwood City. At our press time, a slide
as under construction at Marine World/
frica USA, Marine World Parkway,
edwood City; for more information, call
15) 591-7676.

indsor. *Windsor Waterworks*, 8225 Conde
ane, Windsor (6 miles north of Santa Rosa
n U.S. Highway 101). Just opened, this
8-acre park offers swimming pools,
olleyball, and picnicking in addition to its
ur 450-foot slides. The slides have tunnels,
60° turns, and a drop of 47 feet. Admission
$2.50 per half-hour for the slide; for
ther facilities, it's $2 for adults, $1 for

RICHARD AUDSLEY

STEPHEN FRISCH

In Santa Rosa area, *the newest water slides curve, twist, and intermingle for a challenging set of rides*

Sunset *The Magazine of Western Living* • *August 1980*

DAVID STUBBS

Different materials *transmit heat differently. Sunset reporter Brenzel discusses samples with Berkeley professor Art Rosenfeld (left) and engineer Harry Sigworth, Jr.*

POOL COVERS: *We research heat gain, loss*

Working up the pool-cover article on page 72, we checked with manufacturers and dealers, customers and do-it-yourselfers, maintenance companies and utilities. (Who needs a pool cover? What kind? Why?)

But for a really objective evaluation, for the physics and mechanics of the matter, associate editor Kathleen Brenzel literally went back to school. At U.C.'s Lawrence Berkeley Laboratory, Brenzel studied data produced by two years of testing different conservation measures for pools. The researchers had worked with a computer model, itself verified by comparison with actual pools in different Western climates.

The result: a report based on theory as well as first-hand experience.

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those under 12. Hours are 10 to dusk daily.

Denver. Near Denver, there's *Highland Hi Waterworld,* 1850 W. 89th Avenue, Fede Heights. Opened last summer, this park ha four slides and a wave pool, picnic tables, and softball fields. One-day admission for members of the district is $3.50 for adults $2.50 for children 4 to 12; nonmembers pay $1 extra. Open noon to dusk daily.

Salt Lake City. *Wild Wave,* 1700 South ar 12th West streets. This inland sea is a fan-shaped pool with water that's 2 inches deep at one end, 8 feet at the other. At 12-minute intervals, 3½-foot waves swee up the beach. You can surf on inflatable rafts, then swim during 10-minute calm periods. Admission is $2.50 for adults, $1.75 for children under 12; rafts rent for 50 cents per hour. Hours are 11 to 8 daily

Midsummer Mozart goes late-summer near Sonoma

Buena Vista Winery, built in 1857, w be the backdrop for the lively melod of Mozart on August 24 and Septem 7 and 28. Some 25 musicians from Midsummer Mozart Festival Orches will travel to Sonoma for the group's f performances in the wine country. Un the baton of George Cleve, who also rects the San Jose Symphony, Midsu mer Mozart has won a following dur six seasons in San Francisco, Berkel and the Midpeninsula.

Some 700 seats will be spread in the l afternoon shadows for the 5 P.M. co certs, which will be followed by w tasting. Tickets cost $10 and can purchased from Bass outlets, local m chants, or at Buena Vista Winery, 270 Ramal Road, Sonoma 95476.

The only parking will be in the Vetera Building parking lot (126 First Str West) two blocks from the plaza downtown Sonoma. From there, f buses will carry concertgoers to nearby winery between 3:30 and 4:30

Greek tragedy at dawn— a Utah tradition

Proud men suffered terrible fates works by the classic Greek dramatis But at the University of Utah, the Gre dramatists fare much better: each su mer, their works are proudly staged the classical tradition—outdoors, wi out artificial lighting or sound amplifi tion—by actors in robes and masks.

This month, the university's drama partment presents two free performan of Sophocles' *Oedipus Rex*. August and 9. Both begin at dawn (about 6:1 Bring a blanket, since seating is on t lawn. The campus is at University a Second South streets in Salt Lake Ci follow signs to the performance site.

A new park in the Diablo Range near San Jose

One of the largest parks in the San Clara County system—Joseph D. Gra Park—has just opened in the mountai

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From Dutch Flat trail *in hills of Joseph Grant Park, near San Jose, riders see the pastoral side of the South Bay*

east of San Jose with 40 miles of hiking and horseback-riding trails, fishing lakes, and some wide views of the South Bay. And since it's in the Diablo Range, with elevations up to 2,000 feet, the park can also offer cooler breezes than those on the valley floor.

Hotel Trail takes you from the visitor center up 3.5 miles to Eagle Lake, where you can fish for crappie and largemouth bass (license required). Return by the same trail or loop back by the Digger Pine, Bohnoff, and Yerba Buena trails—for a total trip of 8.5 miles.

At Grant Ranch Stables, 105 Mount Hamilton Road, you can rent a horse to ride along park trails. Rates are $7 per hour or $31 for 6 hours. The stables are open 8 to 6 daily; call (408) 274-9258 to reserve a horse.

The park is open for day use only. There's a small visitor center with displays on the area's wildlife and ranching history. It's 2 miles east of San Jose on Mount Hamilton Road, on the way to Lick Observatory. □

For travel planners, an August 1980 check list

U.S. Elderhostel program. Adults over 60 can enroll in week-long sessions at colleges and universities this fall. (Some 300 academic institutions in all 50 states participate in summer Elderhostel programs.) Classes in liberal arts and sciences—up to three different ones a week—are offered by regular faculty members, noncredit, without prerequisites. Per-person prices ($130 maximum) include dormitory lodgings, cafeteria meals, tuition, and extracurricular activities such as a wine-and-cheese party, theater, or a dance. For free fall catalog with registration information and for future catalogs, write to Elderhostel, 100 Boylston St., Suite 200, Boston 02216.

Action in Denmark. Danish Tourist Board-approved programs include biking, sailing, golfing, horseback riding, canoeing, windsurfing, or sailing for three to eight days. A week on a farm costs about $21 per person per day with meals—discount for children. A rustic beach cottage for four starts at $200 a week. Ask your travel agent for the Active Holidays brochure, or write to the Danish Tourist Board at 75 Rockefeller Plaza, New York 10019.

Learning adventures in the Southwest. Trained guides take small groups on trips of two to seven days—by foot, bicycle, skis, or boat—to study ecology, archeology, geology, or local history. Accommodations are simple lodgings or tents. For a brochure on fall and winter tours, write to Kokopeli Adventures in Learning, Box 1557, Flagstaff, Ariz. 86002; or call (602) 774-3778.

Cruise on a queenly ship. Cunard's *Queen Elizabeth 2* has 13 decks, swimming pools, almost an acre of open space for sports. Depending on the "package" purchased, passengers on QE2's transatlantic crossings from August through December may qualify for family fares, free one-way British Airways tickets, and other savings. (Fall crossings may be turbulent.) See your travel agent.

New Zealand tours. A handy sampler lists 41 tours—group or independent, by bus or rental car, in a deluxe hotel or tent, and special-interest itineraries. For a copy, write to New Zealand Government Tourist Office at 1 Maritime Plaza, Suite 970, San Francisco 94111. □

What a travel agent can do for you: Provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

Sunset School & Camp Directory

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beginning page 112

GARDEN CENTER
beginning page 157

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beginning page 160

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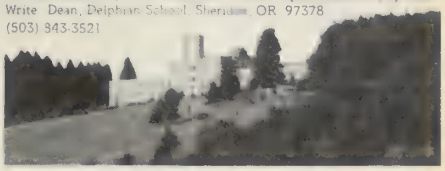

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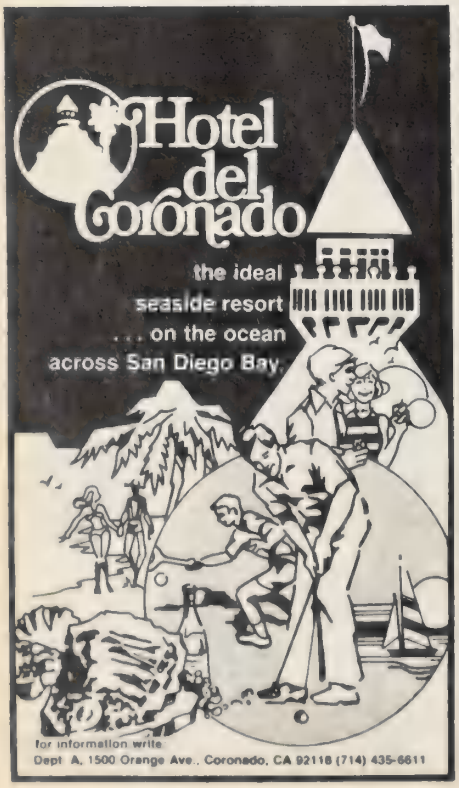

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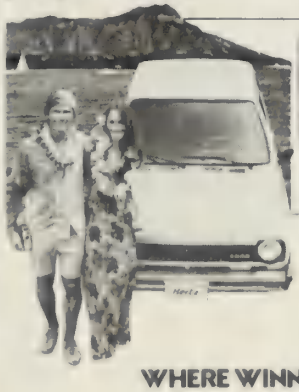

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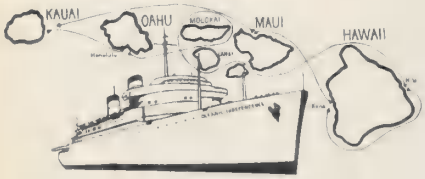

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wo climbers *scout rock-studded glacier om perch near Big Pine Lakes*

Up to a whopping Sierra glacier

ke a scoop of shaved ice nestled in a p of granite, Palisade Glacier still ings to a slope of the Sierra Nevada. ırgest glacier in the southern Sierra, s a good destination for a two- or three- ıy hike. The trailhead is 12 miles west Big Pine off U.S. Highway 395.

ır campsites are spread along Big Pine reek; close by is Glacier Lodge (714/ 72-9271) offering rooms, food, and ı out pond. Overnight hikers must park eir cars in the lodge's lot ($1 a day) or a free lot nearby, below the lodge's ables. Shuttle bus service ($1.25) is ailable from the lodge to the trailhead 7 miles away.

vernight hikers must have a permit, and e entry limit is 45 people per day. This a popular area, so plan ahead: write to 'hite Mountain Ranger Station, 798 N. lain St., Bishop, Calif. 93514, or take ur chances and pick up a permit at the dge up to 24 hours in advance.

he climb to the cluster of Big Pine akes is a stiff one (elevation gain, about 000 feet); you'll need about 3 hours. t the lakes you'll find good campsites, ıd from there you can boulder-hop to e base of the glacier (12,300 feet) in ı hour or two. Don't hike extensively ı ice unless you're experienced and ıve suitable equipment.

you only have time for a day hike, the ectacle of knife-edged Palisade Crest ıd Mount Agassiz is worth taking the ke just to Big Pine Lakes. □

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Which lure *will make 'em bite? Anglers confer along the Smith*

U.S. Highway 199 *links Oregon's interior with the California coast, winding through the Siskiyous, along the Smith River, among redwoods*

Weaving *through stands of king-size redwoods, U.S. 199 approaches Crescent City*

MICHAEL THOMPSO

At a bridge, *motoring family stops to sample roadside blackberries*

Marshy channels *along Selmac Lake shoreline offer quiet canoeing*

Redwoods, Smith River, fish, swim, hike ... U.S. 199

Worth traveling for its beauty alone, U.S. Highway 199 is also a handy link between Interstate 5 and the northern California coast.

The 86-mile route swings past farms and forested mesas, climbs through a rugged spur of the Siskiyou Mountains, and winds among giant redwoods along the Smith River before reaching Crescent City. At almost every turn is the chance to fish, hike, swim, camp, or picnic. And you can visit a "smokejumper" base and the eerie caverns of Oregon Caves National Monument.

For motorists returning from the Northwest, here's one itinerary, beginning from Grants Pass in southwestern Oregon.

Lake Selmac, a half-hour drive southwest of Grants Pass, has over 100 shoreline campsites ($4 to $6.75 a night), hiking and riding trails, swimming, and boating. You can fish for trout, bass, bluegill, catfish, and crappie in the 140-acre lake. A small resort sells groceries

and tackle and rents boats—everything from kayaks ($1.50 an hour) to motorboats ($17 a day). Leave U.S. 199 21 miles southwest of Grants Pass and follow signs 2½ miles east on Lakeshore Drive. For campsite reservations at the resort, call (503) 597-4989.

Oregon Caves National Monument, 20 miles east of Cave Junction on State Highway 46, provides a look at the fanciful calcite formations of these underground chambers. Guided 1¼-hour tours are conducted daily between 8 A.M. and 7 P.M. during the summer; admission is $3.25 for persons 12 and older, $1.75 for children 6 through 11, under 6 not permitted. Dress warmly—cave temperature is a constant 40°.

Near the cave entrance, a lodge has a restaurant and rustic rooms for $26 to $29 a night, double. For reservations, write to Oregon Caves Chateau, 1439 N.E. Sixth St., Grants Pass, Ore. 97526.

Siskiyou Smokejumper Base is 5 miles south of Cave Junction on U.S. 199. Practice parachute jumps began in June, and you're invited to watch. You can also take an informal tour, including a slide/tape presentation about smokejumpers' work. Public hours are 9 to 4:30 daily through mid-September. To learn when the next jump is scheduled, call (503) 592-3166. (This Forest Service base will close for good in October.)

Smith River campgrounds, a string of four Forest Service campgrounds ($1 to $2 a night), begin about 10 miles after you cross into California (50 miles south of Grants Pass). All are by the river and offer fishing for small native trout.

Patrick's Creek Resort, about 15 miles southwest of the state border, is a handsome log lodge built in 1925 with both rustic and more modern accommodations (15 units in all) from about $22 up, double. The restaurant serves homemade soups, breads, and pies, and beef and seafood dishes. Footpaths wind through the 7-acre grounds between the Smith River and Patrick's Creek.

In summer, reservations are a must. Write to Patrick's Creek Resort, Highway 199, Gasquet, Calif. 95543.

Jedediah Smith Redwoods State Park, 15 miles farther southwest, marks both the route's end and its scenic climax. The 9,184-acre park boasts towering redwoods (Stout Grove includes one tree 340 feet tall) and a lazy stretch of the Smith River that's just right for wading, swimming, and inner-tubing. Anglers cast for salmon and rainbow and sea-run cutthroat trout, families picnic on the shore, and hikers explore some 25 miles of trail. Day use costs $2 per vehicle; overnight camping is $5 per unit.

U.S. 199 continues another 4 miles to its junction with U.S. 101. From there, it's 3 miles to Crescent City and the coast. □

A GLIMPSE AT SOME FLOWERS FROM THE BUS

Through this personalized view of the Chinese way of life, author Carol Shenkman and Lawrence Ottinger, officials and leading professors living in the People's Republic of China, you will begin to understand the mind and change in that shape this emerging country. A group of 23 Americans, who visited eight Chinese cities, including Canton, Peking, Shanghai, Suzhou and Urumchi, with diplomatic recognition and great freedom, learned to experience in this truly and enlightening travelog.

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This is an easy to read, convenient to pack book for tourists planning to visit China and particularly for professionals anticipating doing business there. It provides a great introduction to the Chinese way of life as well as a very interesting reading — a perfect gift idea.

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STEVE W. MARLEY

Two-story *Vallejo home, one of California's oldest adobes, hosts an old-fashioned fiesta this month. At right, wick on a stick, a pot of hot tallow, and patience are all part of candlemaking*

History and more in Petaluma on August 9, 10

Candle dipping, adobe-brick making, and sundry other trades of early California will be revived this month as part of Old Adobe Days—a two-day celebration that takes place partly at the Sonoma-Marin county fairgrounds and partly at Petaluma Adobe State Historic Park, 35 miles north of San Francisco. All events are free.

This is the 19th staging of the adobe fiesta, and it's become Petaluma's big event of the year—so it can get crowded. It's best to arrive early in the day to avoid the main crunch.

Saturday, August 9. The Ugly Dog Contest is a turnabout from most dog shows. Gleaming coat and proud carriage are disdained, unkempt hair and swayback revered. Winning features here are things to be cursed in serious show dogs: a droopy tail, sad sack eyes, and severe underbite are the makings of a potential Petaluma champion.

If you can stand to have the family mutt maligned, you can enter him Saturday from 10 to noon (fee $3 per dog). Winners receive trophies and dog food prizes. Or just watch as entrants receive their dubious marks in the judging from 12:30 to about 3.

The Sonoma-Marin fairgrounds are at East D and Payran streets in Petaluma. To get there from U.S. Highway 101, take the Washington Street exit and go southwest to Payran.

Sunday, August 10. From 11 to 4 at the Petaluma Adobe (also called the Vallejo adobe), you can watch a series of demonstrations of candlemaking, weaving, corn grinding, forging, and horseshoeing—and possibly join the action.

The rambling adobe with its second-floor veranda is one of the largest of its type left in California. Built in 1836 and restored in 1953, its outside walls (clay, mud, and straw) are 2 to 3 feet thick and have always been roofed by shingles rather than the traditional handmade tiles of the day.

The 28-acre site is open daily from 10 to 5; admission is usually 50 cents, but it's free on fair day. It's at Adobe and Casa Grande roads, east of downtown; take the E. Washington Street exit from U.S. 101 and turn right on Adobe Road.

Walking in old Petaluma. While you're in town, you might want to walk around its historic riverfront district. Attractive old iron front buildings from the late 19th century cluster around the town core at Western Avenue and Petaluma Boulevard; several boast specialty shops and restaurants.

A walking tour pamphlet guide to downtown Petaluma, showing 26 stops in a four-block area, is available free at the Petaluma Museum at B and Fourth streets, open 11 to 4 Monday through Saturday. For more on old Petaluma, see page 20 of the October 1979 *Sunset*. □

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Everything about the car is built for the driver. The perfectly natural angle of the steering wheel. The expansive windshield that offers you a view of the road instead of a view of the hood.

The appointments are superb.

An international dashboard (with simple symbols rather than words) lets you "read" everything at a glance.

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The ride itself is outstanding. Compliments of a European suspension system that protects you from the imperfections of the road. And thanks to Peugeot's patented extra large shock absorbers which soften the bumps.

The handling is effortless. In this case, the tightness of the car lending itself to the ease of the driver. (Power-assisted rack-and-pinion steering helps, of course. So do power-assisted disc brakes on all four wheels.)

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*Peugeot 505D, manual 4-speed transmission. Remember: Compare the boxed estimate to the estimated mpg of other cars. You may get different mileage depending on how fast you drive, weather conditions, trip length and condition of your car. Actual highway mileage will probably be less than the highway estimate.

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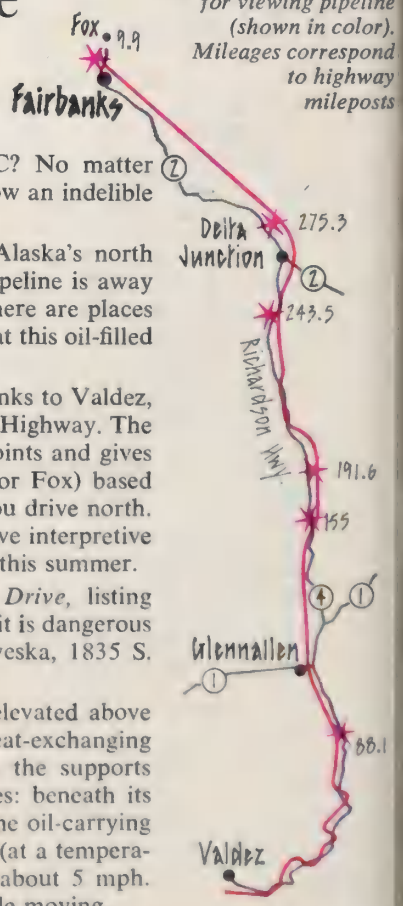
GLENN CHRISTIANSEN

Over hill, *then under river, the Alaska pipeline travels aboveground over permafrost. Near Fairbanks, a close-up look shows heat-dispersing fins on support posts*

Where you can see the big Alaska pipeline

Stars locate *good spots for viewing pipeline (shown in color). Mileages correspond to highway mileposts*



Environmental disaster? Alternative to OPEC? No matter how you feel about the Alaska pipeline, it is now an indelible part of the 49th state's landscape.

Stretching 800 miles from Prudhoe Bay on Alaska's north slope to the supertanker port at Valdez, the pipeline is away from view of most towns and highways. But there are places where Alaska travelers can get a close-up look at this oil-filled umbilical.

The southern half of the pipeline, from Fairbanks to Valdez, roughly parallels the 364-mile-long Richardson Highway. The map at right indicates a few of the best viewpoints and gives their distance from Valdez (from Fairbanks for Fox) based on mileposts on the right side of the road as you drive north. Alyeska Pipeline Service Company hopes to have interpretive signs set up at several of these overlooks later this summer.

The company publishes a booklet, *Pipeline Drive,* listing other spots where you can look, but not touch (it is dangerous to climb on it). For a free copy, write to Alyeska, 1835 S. Bragaw St., Anchorage 99512.

Most places where you see it, the pipeline is elevated above permafrost on steel supports capped with heat-exchanging fins. These fins help keep permafrost around the supports frozen. Total diameter of the line is 53 inches: beneath its outer jacket of aluminum, fiberglass insulates the oil-carrying pipe, which is 48 inches in diameter. Crude oil (at a temperature around 100°) flows through this pipe at about 5 mph. Currently, nine pumping stations keep the crude moving.

If your only stop along the pipeline route will be Fairbanks, one good vantage point is 9.9 miles north of town near Fox. Take the Steese Expressway north to the Goldstream Road exit and head west—you'll cross right over the pipeline. □

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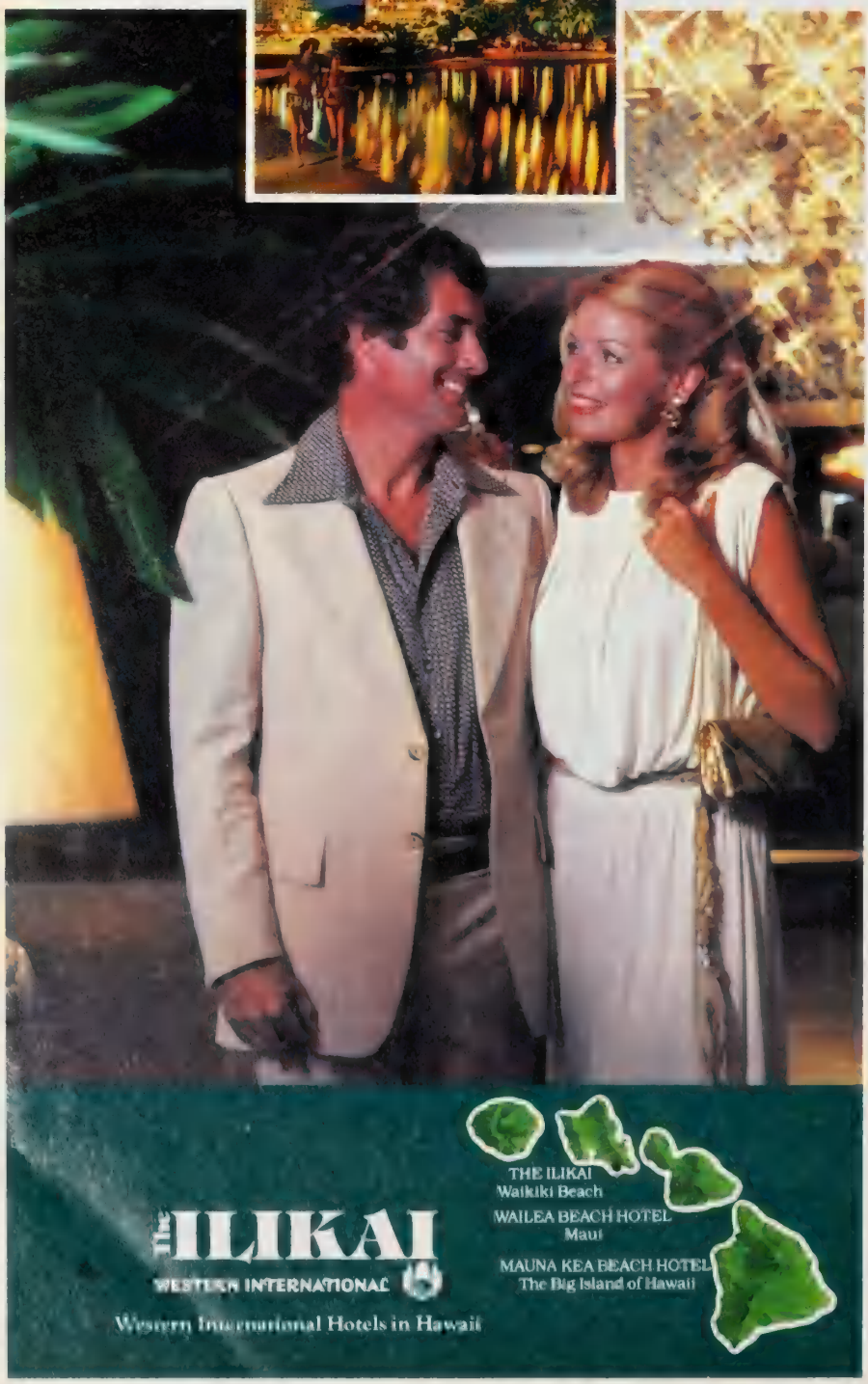

LARRY BULLIS

Jetting foil-borne *across Puget Sound, Flying Princess, above, is less than a third as long as Victoria Princess, below*

Fast or elegant ways to Victoria

Two new vessels sail the Seattle-to-Victoria route this season. The *Victoria Princess,* a 332-foot cruise ship, and the *Flying Princess,* a jet-powered hydrofoil, have replaced the old *Princess Marguerite.* With five sailings from Seattle every day this summer, it's now easier to make the trip.

A new ticketing and reservation system means you can buy tickets from most Seattle-area travel agents, avoiding long ticket lines at boarding time.

The drawback is that neither vessel carries bicycles or automobiles. So you must rent them in Victoria (see page 30).

Victoria Princess: sleek, elegant

Commissioned in 1966, this ship was formerly the *Queen of Prince Rupert,* a B.C. ferry. Handsomely refurbished, the *Princess* has, on a smaller scale, the gracious traditional atmosphere of the retired *Marguerite.* You can promenade on outdoor decks, enjoying fresh sea breezes and screeching seagulls. There are two shops to browse, live entertainment in the new lounge, and a family cafeteria.

Passengers on the evening sailing may reserve a stateroom or use pillows and blankets (free) in the new, reclining airline-style seats.

The one-way trip takes 4½ hours.

Flying Princess: compact, fast

Taking the *Princess* is really like flying. Seats (complete with seat belts and fold-

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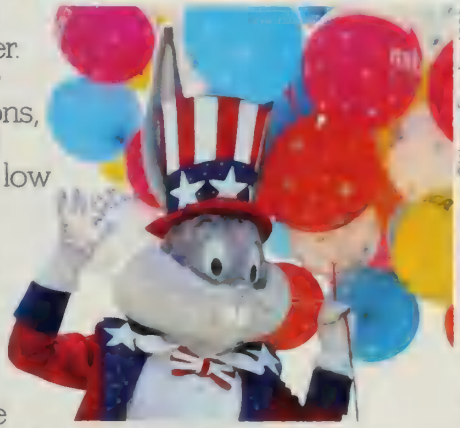

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We could go on talking about all the other things Great America's got going for it—the parades, crafts and gift shops, the fabulous *sit-down* restaurants—but this little map is in the way.

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down trays) are closely spaced, as in an airplane's cabin. The ride is smooth, rarely interrupted by bumps that cause the stomach-losing sensation you may recognize from air travel.

If you're attentive at take-off, you'll feel the subtle change from "on hull" to "foil-borne" travel. Once up on the wing-like foils, the craft glides smoothly over the water. Cruising speed is 50 miles an hour (43 knots); you arrive in 2 hours.

You're not permitted outside the cabin area during the voyage. But continuous windows on the sides of the craft give every seat a good view. On the lower deck you see straight across the water; from up above, the shoreline scene is typical of ferry trips.

You can buy a continental breakfast on the morning flight; sandwiches and beverage are available on afternoon flights.

Schedules, fares

On the summer schedule—effective June 23 through September 1—the *Victoria Princess* leaves Seattle daily except Tuesday at 7:30 A.M. and again at 6 P.M., with return departures from Victoria at 12:30 and 11 P.M.; Tuesdays, there's one Seattle departure at 7:30 A.M., with the return from Victoria at 6 P.M. On the fall schedule—September 2 through October 6—trips are the same times as on Tuesdays during the summer.

The *Flying Princess* makes three round trips on the summer schedule, leaving Seattle at 6 A.M., 11 A.M., and 4 P.M. Returns from Victoria depart at 8:30 A.M., 1:30 P.M., and 6:30 P.M. The fall schedule drops the 11 A.M. run from Seattle and the 1:30 P.M. return from Victoria —otherwise, it's the same.

Fares on the *Victoria Princess* for adults are $15 one way, $25 round trip; for children 5 through 11, $8 and $13. On the *Flying Princess,* adult tickets are $25 and $40; for children 2 through 11, $15 and $24. Fly'N'Cruise tickets (one way on each ship) are $35 for adults, $21 for children 2 through 11.

Bike rentals in Victoria

Pedal Pusher Bicycle Rentals, behind the Crest Harbourview Inn at 455 Belleville Street, has tandems ($3.50 an hour, $12 a day) and five-speeds ($2 and $7.50). Some bikes have baby carriers. The firm will reserve bikes; one day's notice is needed for groups of eight or more; call (604) 385-2425. Hours are 8 to 8.

A-1 Moped Rentals at the Empress Hotel, 677 Humboldt Street, has a tandem bicycle ($3 an hour, $15 a day) and several five-speeds ($2 and $8). You must be 19 years old to rent a bike, and a cash deposit is required. Mopeds—you need a driver's license—rent for $3 an hour, $12 a day. No reservations. Hours are 8:30 to 6. □

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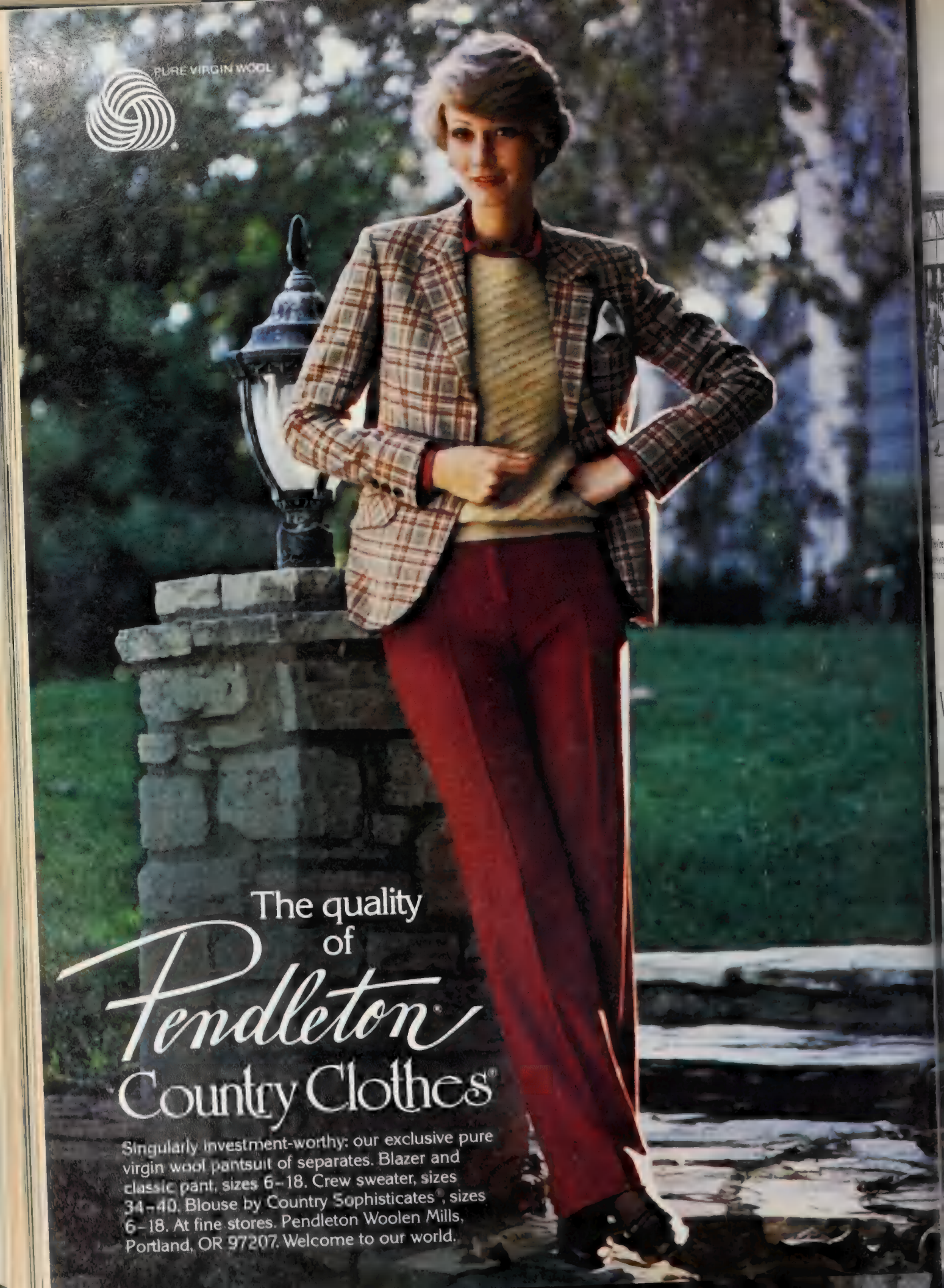
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They're taking the sun *on Granville Island, now being rejuvenated with markets, restaurants, artists' studios. In this view to the northwest, Burrard Bridge is partly hidden by a railway trestle bridge in open position*

Spend a day "under" Vancouver's Granville Bridge

At public market, *fresh produce like these tomatoes comes from the Fraser and Okanagan valleys*

Arching over the industrialized waterfront of False Creek, Granville Bridge has been a gateway into downtown Vancouver, B.C., for decades. But until lately, there hasn't been much of interest beneath the bridge to tempt motorists to linger on their way there.

Now there is. It's called Granville Island, once a grim warehousing yard and currently the focus of public-oriented redevelopment. Initiated by federal funds, the project so far includes a lively public market, a pair of restaurants, artists' studios open to public viewing, two live theaters, as well as a lot of open space to encourage pedestrians.

You can walk around most of the 39-acre island, strolling atop seawall paths, through landscaped park strips, across cobbled plazas, up a grassy mound with wide views of boating traffic and downtown skyscrapers. Along the way you'll also see some continuing industries, including a forge where work is still done by hand. There'll be an art school later this summer, and eventually a maritime complex including a marina and "boatel" with visitors' moorage.

The open, airy public market, a complex of renovated warehouses that was an instant hit with locals, features all sorts of fresh seafood—salmon, rockfish, mussels, lobsters, octopus, shrimp, crab. In season, produce rolls in from the Fraser Valley and fruits from the Okanagan. You'll find butcher meats, cut flowers, jewelry and crafts, delicatessens, and short-order windows offering Italian *gelati* (ice cream), fish and chips, Greek snacks, coffee and buns. Market hours are 9 to 6 daily except Monday.

Every evening except Sunday, the Arts Club Theater presents live performances (usually light contemporary works); for a schedule and ticket prices, call (604) 687-1644. The innovative Waterfront Theater presents the varied work of three different theater companies, from children's plays to new script premieres and some audience-participation events. Performances are given daily at noon; for details, call (604) 685-6217.

There's parking space for about a thousand vehicles sprinkled throughout the island. But getting there is tricky. As you approach Granville Bridge (driving northbound on Granville Street), turn left onto W. Sixth Avenue, then right on Fir Street and right again on W. Third Avenue, which merges into Anderson Street. Follow signs onto the island, actually a thumb of land projecting from the south shoreline of False Creek. □

Bridges leap *North Fork of the Feather River at Pulga Crossing. Rails have traversed canyon since 1909, but there's no longer any passenger service*

Three forks *of Feather River flow into Lake Oroville. For a more detailed map of the area, see page 36*

August adventures on the Feather

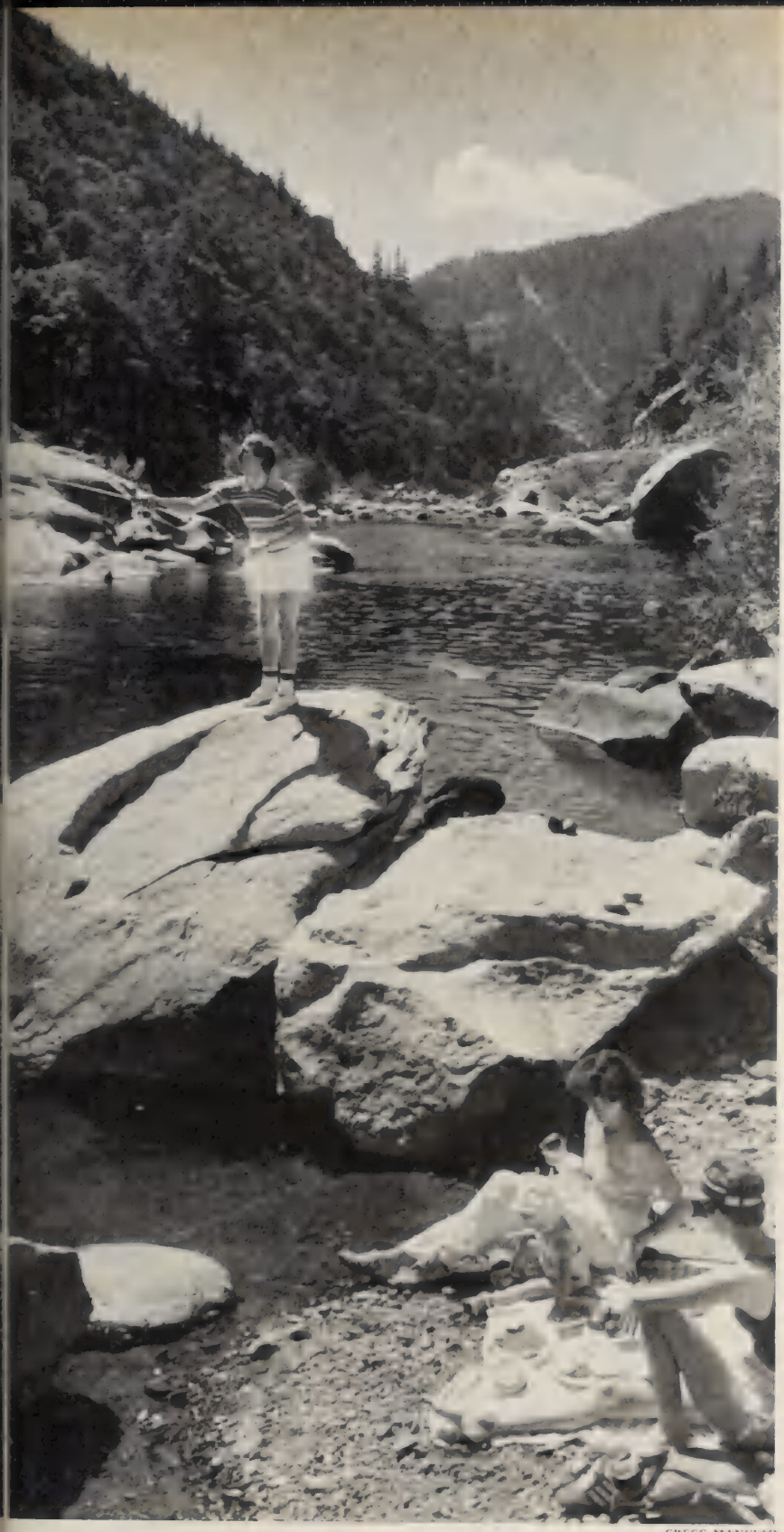
Among them . . . loggers' fest in Quincy, bass, trout, salmon fishing on the great lakes, gold history drive up the North Fork

Bucksaw team *competes furiously at loggers' fest and county fair in Quincy, August 6 to 10*

"As beautiful a country as I have ever seen . . . on one side rise the Buttes, on the other, tossing to Heaven their snow-wreathed foreheads the glorious Sierra Nevada," wrote Louise Clappe in *The Shirley Letters*. In 1851, she was one of the first women in the Feather River mine camps, and her letters paint a rich picture of that untamed territory.

Today, the three forks of the Feather River rush down scenic canyons, past gold rush hamlets, and through lush forest on toward the huge dam holding Lake Oroville. Yet much here still seems wild, unspoiled. With more than 100 lakes and 1,000 miles of streams and rivers, the Feather River region offers superb trout fishing, hiking, boating. You can taste this country on a long weekend, but it's best to allow more time for exploring.

In August, Feather River water is warm enough for lazy inner-tubing or desultory gold-pan dunking. In Quincy, a loggers' fest celebrates the area's history.



GREGG MANCUSO

Stone block vault *rises from ruins of assay office in ghost town of Cherokee*

Fun on North Fork: *you can pull off the road at any of six sites to fish and picnic (left) or paddle an inner tube*

nd this year, Plumas National Forest as a new national recreation trail and ore camping sites.

mping-off point for most trips is Oro-lle, 75 miles north of Sacramento on tate Highway 70. (On page 36, we de-ribe the 75-mile drive from Oroville to uincy on State 70, then the route to lairsden on State 70/89; for a fast re-rn, you can continue southeast on State 9 for 50 miles to Interstate 80.)

The city of gold—Oroville

The Oroville area has grown fast of late, recording a 30 percent jump in population in the past 10 years. But it has grown gracefully, retaining its core of tree-shaded avenues and stately Victorians. The Judge C. F. Lott house in Sank Park is a good example. Carefully restored to its 1856 grandeur, the two-story frame house is filled with period antiques. Lott House, at 1067 Montgomery Street, is open Wednesday and Thursday from 1 to 4, 10 to 4:30 Friday through Tuesday; admission is $1.

Another quiet reminder of the past is the Chinese Temple at 1500 Broderick Street. Built in 1863, it is the sole survivor of a Chinatown once among the largest in the West. Here you'll find temple art and artifacts, plus a hall of old tapestries. Hours and admission are the same as for Lott House.

Oroville has a dozen motels. For lodging information, call the Chamber of Commerce at (916) 533-2542.

But the big attraction here is 15,500-acre Lake Oroville with 167 miles of shoreline. Start exploring at the visitor center at Kelly Ridge at the lake's south end. You can see exhibits and slide shows, pick up maps, and climb a 47-foot-high viewing tower for a good look around. The center is open from 9 to 8 daily.

Lake Oroville is stocked with rainbow trout, largemouth and smallmouth bass,

Two marinas, three rental stables

1. Lime Saddle Marina. Open daily 7 to 7; (916) 534-6950. Rentals: fishing boats $20 per half-day; patio boats $60 per half-day; houseboats from $255 for three days to $750 per week

2. Bidwell Canyon Marina. Open daily 7 to 9; (916) 589-3165. Fishing boats: $17.50 per half-day

3. Haskins Valley Stables, Bucks Lake. Open 9 to 6 daily for horseback riding; $5 per hour

4. Greenhorn Creek Guest Ranch, Spring Garden. Open for spring and fall riding by reservation only; call (916) 283-0930; $5 per hour

5. Graeagle Stables, Graeagle. Daily 8 to 7; $7 per hour

For Plumas National Forest camping and hiking information, call (916) 283-2050

GREGG MANCUSO

Renting a houseboat *is one way to explore 15,500-acre Lake Oroville*

catfish, silver (coho) and kokanee salmon. You can fish (license required) from shore or boat. You can rent or launch boats at two marinas: Bidwell Canyon at the south, Lime Saddle at the northwest end (see map). The Loafer Creek recreation area at the lake's south end has swimming, picnicking, and camping (137 sites). There are also eight boat-in campsites around the lake.

Two forebays west of the lake also have facilities: Thermalito Forebay North has a 300-acre, day-use area offering swimming, picnic sites, sailboat launching; Thermalito Forebay South has launching for powerboats only.

The new Feather Falls National Recreation Trail is worth a side trip. The 3½-mile trail takes you past an old Indian grinding site (look for smooth, deep gouges in the rock) and up through a pine forest to an overlook view of the 640-foot falls—impressive even in late summer. It can be a hot hike: wear a sun hat and bring water. To get to the trailhead from Oroville, go east on State Highway 162, then east and north on Forbestown and Lumpkin roads to the town of Feather Falls.

Another interesting side trip from Oroville takes you to the ghost diamond-mining town of Cherokee, where the largest diamond in California was reputedly mined. A few stone structures and a small store remain. To get there from Oroville, head north on Cherokee Road for 11 miles.

Into the Feather River Canyon

State Highway 70 hugs the North Fork of the Feather, sometimes slicing into tunnels blasted through granite. It's a beautiful drive, though the river here has been tamed by six hydroelectric stations. Above their dams sit quiet pools, below them flow some stretches of whitewater. Along the 75-mile drive to Quincy, you can stop and picnic or fish at half a dozen Forest Service and PG & E sites.

Towns and hamlets along this route are rich in gold rush history. At Belden, you can roam about a five-stamp mill that once crushed ore. At Rich Bar, you can see what became of one of the early mining camps that Louise Clappe painted so vividly in *The Shirley Letters*.

Bustling Quincy and the Lakes Basin

A few miles after State 70/89 turns south, you enter Quincy—a bustling timber town and the site of the Plumas County Fair and Logging Show (August 6 to 10). At the fair, you can watch a parade, ride a mechanical bull, try homemade baked goods, or—on August 9 at 7 P.M.—watch loggers vie for prizes in ax throwing, chopping, and sawing contests. Fair hours are 10 to midnight daily; admission is free.

You can find a few remnants of Quincy's past, such as the 1927 courthouse, but much of the older town was wiped out by fires. There are several motels, restaurants, and sporting goods stores here, supporting Quincy's position as an entry into nearby recreation land.

Two roads lead from Quincy to Oroville—via Bucks Lake and La Porte. Each has a long unpaved stretch that is narrow and intimidating and is reliably open only mid-June to mid-September.

Heading southeast on State 70/89, you pass through the American Valley and lush grazing lands on the way to Mohawk, Graeagle, and Blairsden. These resort villages cluster at the gateway to the Lakes Basin—an area of 30 lakes in Plumas National Forest. To reach the heart of the basin, follow Gold Lake Road south 8 miles from Graeagle.

Plumas-Eureka State Park is nearby, too, with its stamp mill and ghost town of Johnsville recalling the days of hard-rock gold mining. The park has a mining history museum, guided walks, hiking trails, and 67 campsites (reserve through Ticketron). To get there from Mohawk, follow County Road A14 west 4 miles. □

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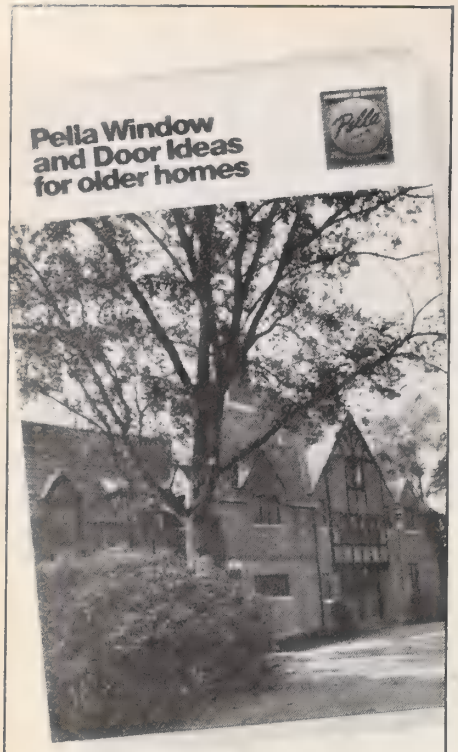

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Large color tone *shows area most affected by ashfall from big May blast; dark patches mar heaviest concentrations. Smaller tone shows area of main fallout from mid-June eruption*

Driving north? Here are questions, answers, cautions about St. Helens

In the aftermath of the big May and June blasts of Mount St. Helens, readers have been asking us about driving conditions in the Northwest. And many want to know where they can view the volcano from a "safe" distance.

For answers, our Seattle office talked to drivers and queried state and federal officials in Washington, Oregon, and Idaho.

Are the highways open? Yes, at press time all were. But especially in eastern Washington and northern Idaho, wind-whipped ash could close sections temporarily at any time.

Highways in the most affected area include Interstate 90 (particularly between Moses Lake and Ritzville), I-82, and U.S. 12, 95 (in Idaho), 195, and 395. Alternate cross-state routes include U.S. 2 and state highways 20 and 14 (or Interstate 84 in Oregon).

However, most travelers bound for Washington head to the Puget Sound area, the San Juans, the North Cascades, the Olympic Peninsula, and other points west of the Cascades. As of our press time, the eruptions have had virtually no effect on travel there. Similarly, all of Oregon, save for the area around Portland, was ash-free.

But note that further mudflows on the mountain could cause flooding that might close Interstate 5 near Castle Rock; if so, U.S. 101 is an alternative.

For a 24-hour-a-day report on road conditions, call the state police in Washington at (206) 753-6856; in Oregon, (503) 378-6532; in Idaho, (208) 334-3778.

And for updated travel information on areas of Washington thus far unaffected by volcanic activity, write or call Tourism Division, 101 General Administration Bldg., Olympia 98504; (206) 464-7143.

What are the hazards for car and driver? If you encounter falling or wind-blown ash, you'll need to service your car more frequently than usual, because of the highly abrasive nature of fine volcanic ash.

In blowing ash or light ashfall, the Washington State Highway Patrol recommends that you drive no more than 1,000 miles before changing engine oil, automatic transmission fluid, and all filters (oil, air, fuel); check brakes and alternator; lubricate and repack front-wheel bearings. In heavy ashfall, drive no more than 100 miles without this servicing. And carry a spare air filter.

When falling ash mixes with rain, it gums up the windshield and clogs wipers; carry extra water. Wet ash also makes roads very slippery; reduce speed and turn on headlights. In dry ash, leave car vents closed and don't turn on air-conditioning.

Volcanic dust includes small particles that can aggravate asthma and other respiratory conditions. The Washington Department of Social and Health Services advises travelers exposed to it to wear a surgical-type face mask. Disposable masks are widely available. The ash can also cause eye irritation, especially for contact-lens wearers; consider carrying goggles.

Summer rains in western Washington will help settle and wash away the ash. But east of the Cascades, little rain is expected until fall—and brisk winds will churn up the ash anew. In some areas, even without further eruptions, the problems faced by drivers may persist for a year or more.

For a free brochure describing emergency procedures during volcano-related conditions, send a stamped, self-addressed envelope to Emergency Services, 4220 E. Martin Way, Olympia 98504.

Seeing the volcano—safely. No one can predict when more eruptions will occur. (During the volcano's last eruptive period in the mid-1800s, activity continued intermittently for 25 years.) So the U.S. Forest Service has closed to the public most of Gifford Pinchot National Forest surrounding the volcano and has renamed the central area Mount St. Helens Geological Area.

The Forest Service is setting up two temporary interpretive centers off I-5, scheduled to open July 4. From either, on a clear day, you'll get a good look at the volcano, about 40 air miles away (bring binoculars). Twenty miles north of Portland, take exit 14 (Ridgefield) to one center; 55 miles farther north, take exit 68 (U.S. 12) to the other in Lewis and Clark State Park. Hours: about 9 to 7 daily. ▫

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Transfer point *between JFK Express and shuttle bus is Howard Beach station*

N.Y. time saver . . . to airport by subway

New York's JFK Express is a subway: that's the bad news. Out-of-town visitors (and probably more natives than care to admit it) tend to board New York City subways with fists clenched and eyes darting nervously from side to side. But the good news is that the JFK Express, now two years old, is the cheapest and most dependable means of making the 20-mile trip between JFK Airport and Manhattan. Current one-way fare is $3.50 for a ride that's 1 hour long at most—even in rush hour and bad weather.

The Express bears only a faint family resemblance to run-of-the-station subway trains. While these can be hot, crowded, and spritzed with ominous graffiti, Express cars are air-conditioned, spacious enough to carry you and your luggage in reasonable comfort, and clean. And where regular subways can be Gordian knots of stops and transfers, the JFK Express is soothingly simple and direct, leaving every 20 minutes between 5:30 A.M. and 12:30 A.M. daily and making only eight stops.

From plane to bus to train. In front of each airline terminal, you'll find a shuttle bus stop marked by a white jet on a light blue background. Wait here to catch a bus bearing similar markings for the ride to the Howard Beach subway station where you board the Express. (At the station, grab an Express timetable and a subway system map.)

The train stops once in downtown Brooklyn and seven times in Manhattan: from Nassau Street (near Wall Street at the southern tip of the island) to 57th Street (just south of Central Park). Pay your fare on board; conductors will make change.

Reverse the process to return to the airport. You'll pay 50 cents to enter any of the city subway stations, then the normal fare on board the JFK Express. □

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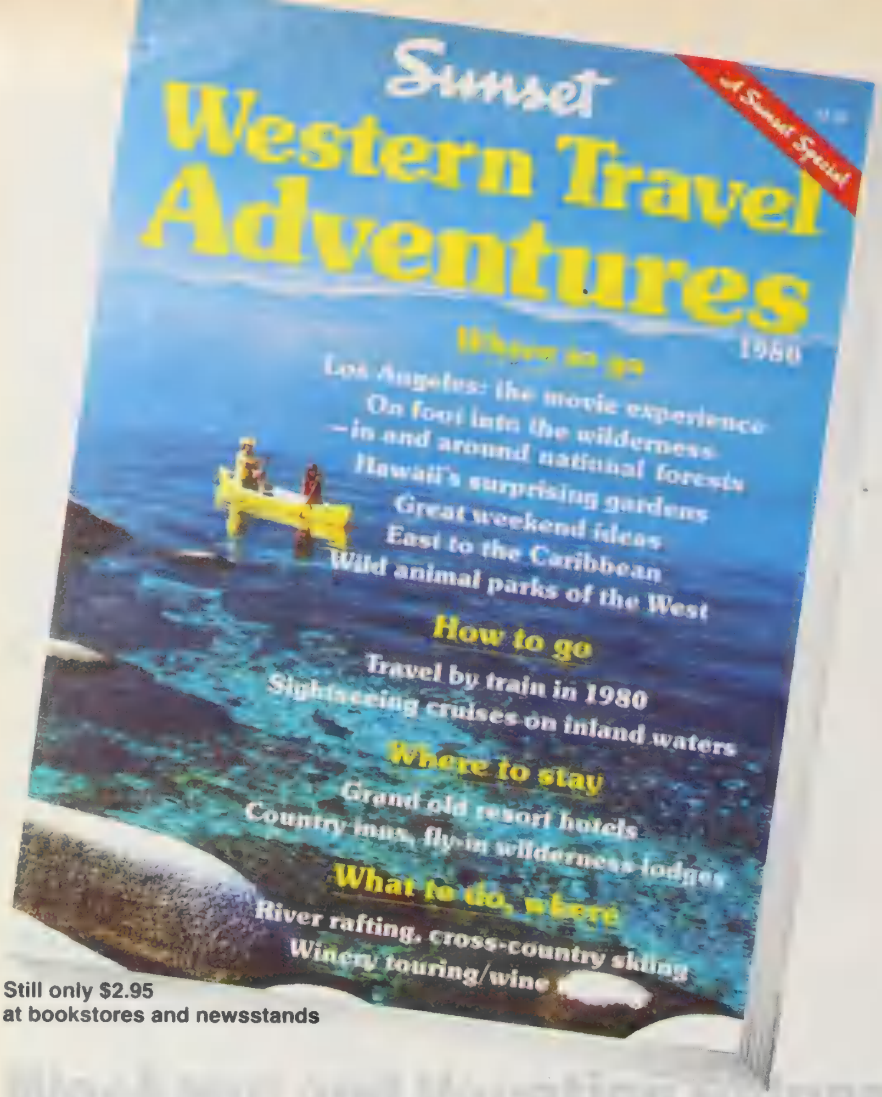

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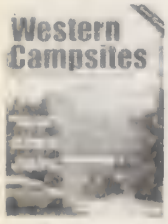

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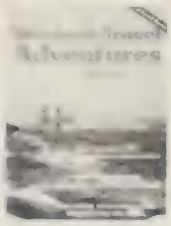

Sunset's newest guide for great weekends and vacations. Features on 25 subjects—plus hundreds of information listings on places, events, and services

Up Haleakala . . . go early to miss new roadwork

Narrow and sinuous, the old road up the steep flank of Maui's Haleakala volcano has always been a challenge for island visitors. This year, it's more so: reconstruction of the roadbed is underway and unless you time your drive carefully, you may not be able to pass the crew and get up the mountain at all.

Because of a tight schedule and National Park Service requirements that the contractor not move equipment off the actual roadbed, construction work will block the Haleakala Crater Road into Haleakala National Park part of each weekday. It will be closed to incoming traffic Monday through Friday from 11 A.M. until 9 P.M.; outgoing traffic must be beyond the construction zone by noon. The road is open all day on weekends and Federal holidays. This schedule should hold at least until May 1981.

Built in 1935 by National Recovery Administration (NRA), the narrow asphalt ribbon climbs nearly 7,000 feet in just 20 miles from State Highway 377. Last year, more than 400,000 visitors drove up to the 10,023-foot crater overlook at Red Hill, Maui's highest point.

The work now in progress will completely rebuild the roadbed and widen it a good 3 feet. A new water line will be buried under 3 miles of the roadbed to prevent spoiling the view from the road.

Fortunately, the best time to view the spectacular volcanic wasteland of Haleakala Crater is before breakfast—about 7 to 8 A.M. If the top of the mountain is going to be clear of clouds at all, it will be at dawn; and the low light accents the colors of the formations spread out beneath you. This leaves plenty of time for crater-viewing and a short walk before you need to start back.

From the Lahaina/Kaanapali area, allow a good 2 to 3 hours for driving to the Red Hill overlook. There is no food or gas in the park. Warm clothes are a must: even in the tropics, dawn at that elevation can be freezing.

For a last-minute update on road conditions or for details on hiking, camping, or other activities in the park, write to Haleakala National Park, Box 357, Makawao, Hawaii 96768, or telephone (808) 572-9306. □

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Spectators line sidewalks *of Bisbee to watch mass start of bike race*

Biker hundreds will race in Bisbee

America's strongest and best bikers—more than 600 of them, aged 8 to 80—will soon converge on Bisbee, Arizona. This tiny, mile-high mining town, about a 100-mile drive southeast of Tucson, will host the 1980 U.S. National Bicycle Championships from August 10 to 17.

Though this competition is normally held in metropolitan areas, Bisbee was chosen this year for its warm, sunny weather and for its challenging European-style course that winds through the narrow, hilly streets of the century-old downtown. The 3.5-mile road racecourse includes an arduous 400-foot climb and a thrilling descent down U.S. Highway 80 into town (racers—at speeds exceeding 50 miles an hour—will have to negotiate a hairpin curve).

Best spectating days will be Friday through Sunday (August 15 to 17), when men and women in eight U.S. Cycling Federation age divisions face the course. On Friday, you can watch racing in the midget class (ages 8 to 11, two laps) and most of the women's divisions. On Saturday, veteran and junior men and senior-class women will compete.

Most physically demanding is the senior men's race beginning Sunday at 10 A.M. Only a dozen or two of the toughest cyclists from a field of some 100 are expected to finish all 29 laps—a total of 101.5 miles.

Earlier in the competition on Sunday, August 10, and on Wednesday and Thursday, August 13 and 14, time trials will be held along U.S. 666 between Douglas and Elfrida, Arizona. Shuttle buses will take spectators to the race site from Bisbee.

Getting there, accommodations. If you plan to drive to Bisbee during the last three days of racing, the fastest route will be State Highway 92 south then east from Sierra Vista (part of U.S. 80 into Bisbee is the racecourse and will be open to only one lane of car traffic).

Bisbee motel accommodations are booked during the races, but campers should be able to find space in improvised sites around the town. Rooms

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ANITA NOTDURFT-HOPKINS

Refreshing douse *of water rallies biker on steepest ascent of Bisbee course*

should still be available in Tombstone, Sierra Vista, or Douglas—each about a half-hour drive from Bisbee. For a list of accommodations and prices, plus race details, send a stamped, self-addressed, business-size envelope to Jean Redmond, Box 1115, Bisbee, Ariz. 85603.

Once you're in town, you can get information about race events, restaurants, lodging, and area sightseeing by stopping at the Visitor Assistance Bureau in the handsome brick 1902 Copper Queen Hotel on Main Street. The bureau will be open 7 A.M. to 8 P.M. daily beginning August 8; telephone (602) 432-3201. □

How do you use your bike?

Do you commute or shop by bicycle? We'd like to know why you do it, how long you've been doing it, how far you pedal, and in what kinds of weather. How do you cope with rain, heavy traffic, steep hills, narrow roads? What are the pleasures and benefits?

Have you discovered or invented any gadgets that make biking easier or safer?

We're also interested in hearing about bicycle-oriented cooperatives and workshops, bike-commuter pools, and how cities or employers are helping bikers.

Please share your experiences with the Bike Editor, *Sunset Magazine*, Menlo Park, Calif. 94025. □

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Cheese-stuffed Patties

Mix 1 lb. ground beef, 1/2 teaspoon salt and dash of pepper. Between sheets of waxed paper, roll out patties 1/4 inch thick. Center half of patties with small amount of shredded American cheese and chopped onion and barbecue sauce. Top with remaining meat patties; press edges to seal. Grill over medium-hot coals about 7 minutes. Turn; grill 6 to 7 minutes more. Makes 3 burgers.

Barbecue with Gulf Lite- the "one match" charcoal starter.

Smooth, firm sand *of Belhaven Beach offers a long straightaway for riding or strolling*

In Scotland... John Muir park by the stormy North Sea

Plaques *on Dunbar building mark its age and renown. Interior is being restored*

"Fortunately around my native town of Dunbar, by the stormy North Sea, there was no lack of wildness." John Muir, the "American" naturalist, was describing in his autobiography his Scottish birthplace as it existed in the 1840s. Surprisingly, his comment is almost as true today, and in a fitting—if belated—tribute to him, the East Lothian District Council recently set aside 8 miles of coastline at Dunbar as John Muir Country Park.

Just 30 miles east of Edinburgh, the park is a short ride by train or bus, and the trip makes a pleasant change from crowded city touring.

Conical, *pantiled roof of grain kiln at Preston Mill is little changed since 1620. Mill runs now for the National Trust*

The 1,667-acre park offers a hard sand beach for walking and a self-guided nature trail about 1½ miles along the headlands and into Dunbar. Bird watching and fishing for cod and flounder are favorite pastimes here. In summer, a ranger leads walks every Wednesday afternoon; for times and other park information, his telephone number is East Linton 556.

Wear warm clothing and take along a picnic. Or you can lunch in Dunbar, a town with some restored seaside houses, the 17th-century steepled Town House, and Lauderdale House, designed by 18th-century architect Robert Adam. Then climb among the "craggy ruins of old Dunbar Castle," which Muir called "one of our best playgrounds." His birthplace in the High Street will be restored as a period house, with some exhibits.

Five miles west of Dunbar, at East Linton, is Preston Mill, the oldest working water-driven oatmeal mill in Scotland. The 16th-century mill was in commercial production until 1957. Now restored, it's a National Trust for Scotland property and is open daily from April through September, Sundays only the rest of the year.

Buses to East Linton and Dunbar run hourly from St. Andrew Square in Edinburgh; you can get off at the park entrance. Trains run to Dunbar from Waverley Station. For more information about East Lothian and the area around Dunbar, inquire at the Scottish Tourist Board south of Waverley Station. □

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Buckskin-clad *ranger tells visitors how explorers lived in winter of 1805*

DON NORMARK

From Troutdale *out onto the coast, you can follow the last 130 miles of the historic journey*

Walk in the steps of Lewis and Clark

In 1803, Jefferson commissioned the Corps of Discovery to explore the West and the new Louisiana Purchase, which pushed the borders of the United States to the Rocky Mountains. Captains Meriwether Lewis and William Clark took 2½ years (1804 to 1806) to go up the Missouri, across the Rockies, and down the Columbia River in one of the greatest exploration feats of all time.

This summer is the 175th anniversary of their achievement in reaching the Pacific Ocean. Special exhibits, new trails, and ongoing displays (all free) along the last stretch of the Lewis and Clark route in Oregon and Washington mark the event.

You can drive the final 130 miles from Troutdale (near Portland) to the coast in an easy weekend trip, stopping at sites along the way to get an idea of the enormity of the expedition's accomplishments.

On the entire trip, only one of the 31 men perished (from appendicitis). The leaders mapped the route, discovered and named 100 animals and 70 plants, and wrote detailed journals. On reaching the Pacific in November 1805, Clark wrote, "Great joy in camp, we are in view of the Ocian, the roreing made by the waves brakeing on rockey Shores (as I suppose) may be heard distictly."

Wall map *in Fort Canby's interpretive center shows path of expedition from Illinois to the Pacific*

Marked trails *at Fort Canby retrace part of the explorers' route*

Metal signs *along U.S. 30 guide you to the coast*

n and around Portland

Lewis and Clark College, on S.W. Palatine Hill Road, is sponsoring an exhibit on the cholarship of the expedition, its discoveries n ethnology, linguistics, zoology, botany. 'ou will see rare books, art, sculpture, naps, and the valuable 1814 account of the ourney by Nicholas Biddle. The exhibit is n view through August 8 in the main ibrary, open 8 to 5 weekdays.

The Oregon Historical Society, at 1230 .W. Park Avenue, Portland 97205, has a lisplay on the 1905 Lewis and Clark Exposition (through November). In 'ebruary an exhibit of artifacts from the xpedition itself will include branding iron, ewing kits, and the Jefferson medallion. 'ou can buy books and maps on the ourney (for a catalog, write to the address above). For show dates, call (503) 222-1741. Hours are 10 to 5 daily except Sunday.

Lewis and Clark State Park, 14 miles east of Portland off Interstate 84 in Troutdale; ncompasses 56 acres on the Sandy River—which "throws out emence quantities of and," according to Clark, who waded across it. A new ¼-mile nature trail is being planted with 150 Oregon species that Lewis and Clark named or collected. You can picnic and fish here (day use only).

Out to the coast

Fort Clatsop National Monument, 5 miles south of Astoria off U.S. 101, is a reconstruction of the log fort the expedition built in November 1805 to wait out the rain-soaked winter: "All wet and confind to our shelters. O how horrible the day!" Open 8 to 8 daily, Fort Clatsop has a visitor center with films, exhibits, a bookstore. You can wander through the 50-foot-square fort and (through Labor Day) watch costumed rangers demonstrating the chores and duties of troop members.

Ecola State Park, 23 miles south of Astoria, is as far south on the coast as the party traveled, hiking out over Tillamook Head to view a beached whale (a "monstrous fish") and arriving on a "butiful sand shore." You can picnic or hike some 6 miles of trails in this spectacular park.

Fort Canby State Park, across the Columbia in Washington, 2 miles southwest of Ilwaco, has the largest Lewis and Clark interpretive center in the West. There are two floors of exhibits on map-making, foods, medical treatment, Indians, and expedition members, plus a continuous slide show. Hours are 9 to 6 daily. On this dramatic site atop Cape Disappointment, the view alone is worth the visit. From here, noted Clark, "Men behold with astonishment the high waves and emence Ocian." □

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Giraffes at close range *delight visitors on exclusive behind-the-scenes tour on a ride into wild animal territory*

Photo safari near San Diego

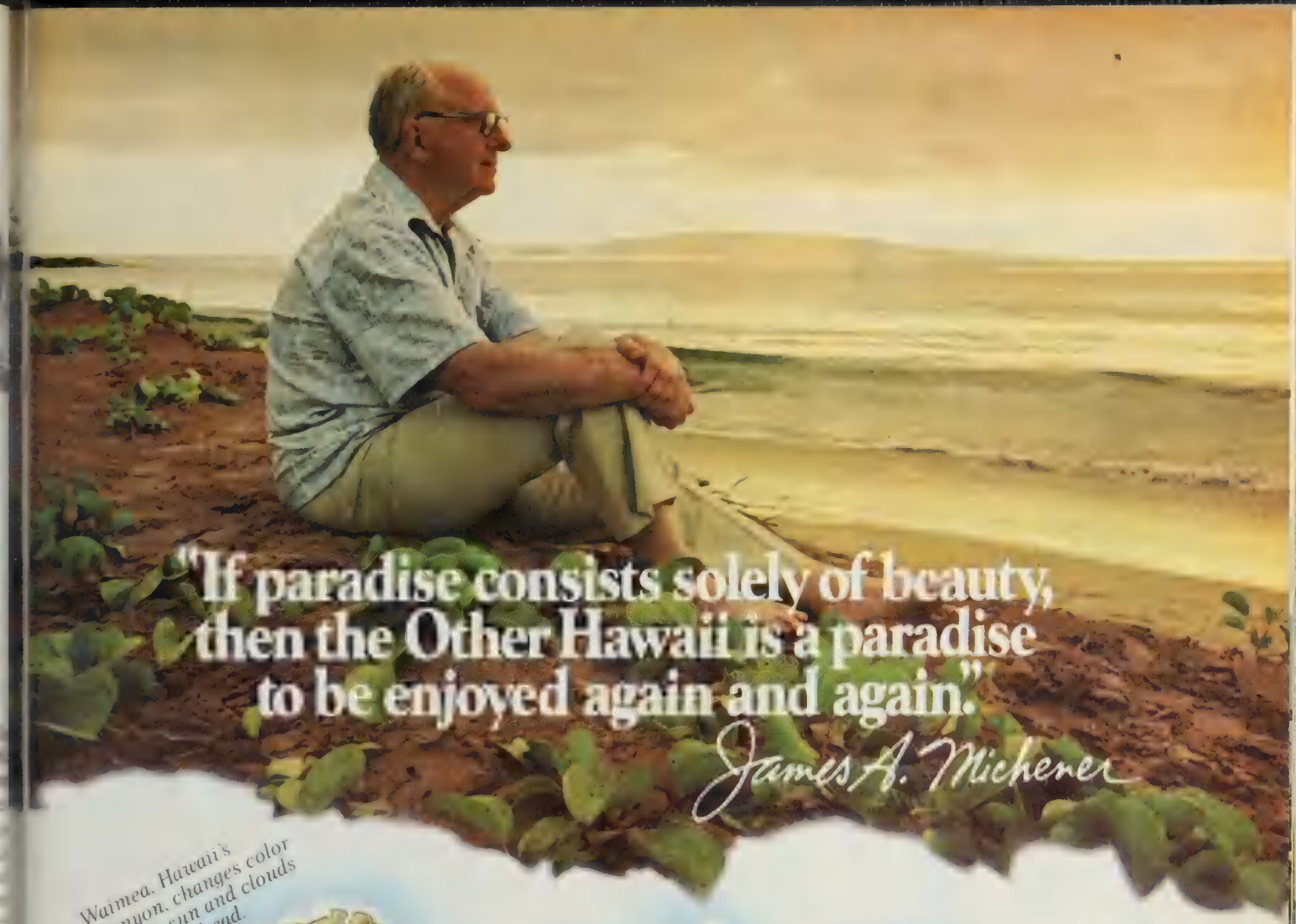
Designed for photographers but fun for anyone, San Diego Wild Animal Park's new Caravan Tours allow you to snap your shutter from close range at elephants, wildebeests, rhinos, giraffes, ostriches, and other creatures from East and South Africa and the Asian bush and waterholes. You'll go 5 miles down a dirt road where only feeding trucks have gone before.

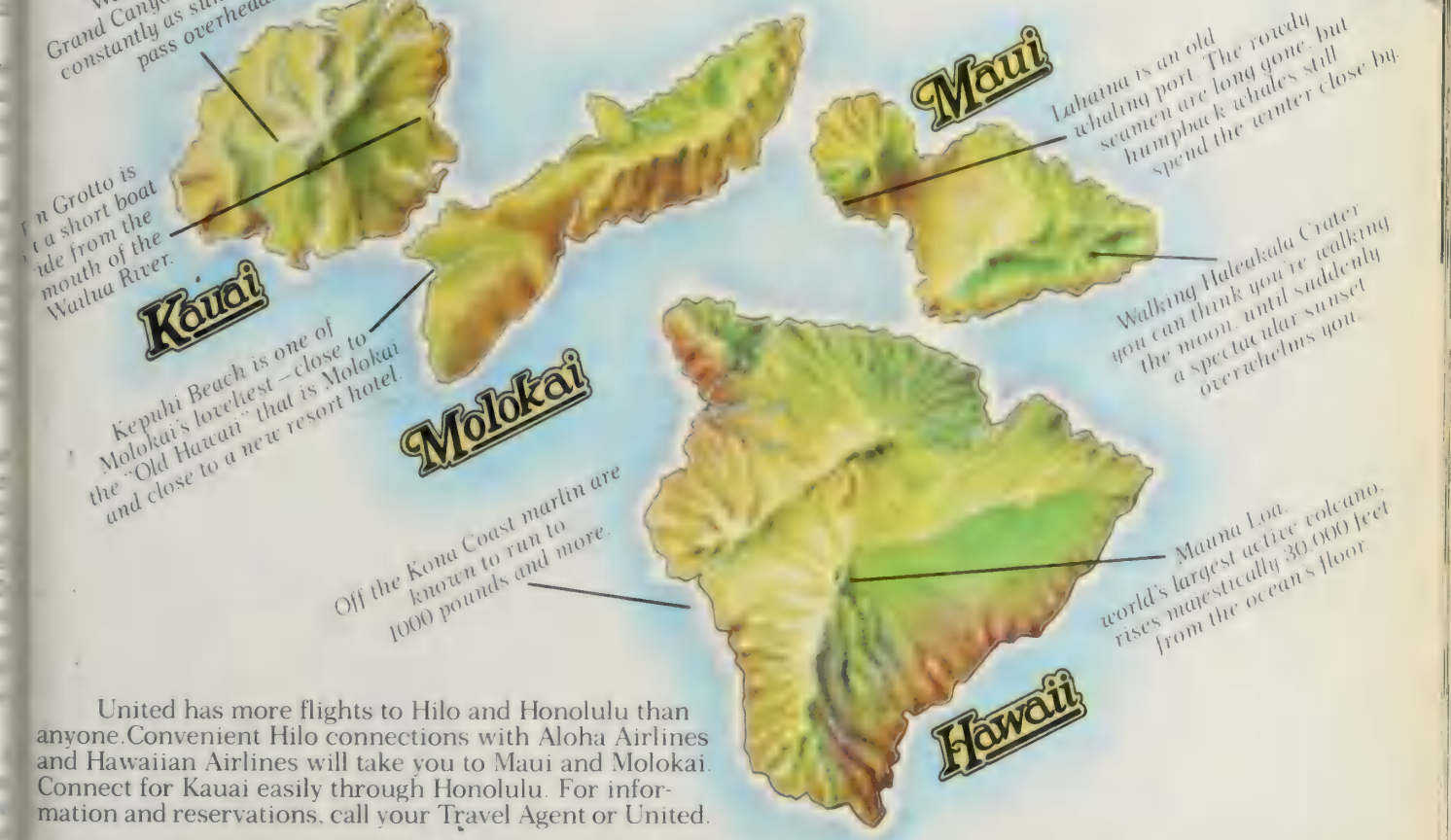
A keeper rides with you in the open truck (bring hat or suntan lotion) to answer questions and to ensure a safe trip. Frequent stops are made to allow picture taking.

These tours, running for the first time this summer, are rather costly: a 1½-hour outing leaving at 2:30 and 4:30 P.M. costs $30 per person; a 3½-hour tour leaving at 2:30 costs $50. Price includes park admission (regularly $3.75), guidebook ($2.25), and an inventory and description of the animals; the 3½-hour tour also includes a light snack.

In July and August, tour days are Wednesday through Sunday; in September and October, tentatively Saturday and Sunday only. Each caravan is limited to 12 people, 16 years old or older. To reserve a place, send a check to Zoological Society of San Diego, Wild Animal Park, Route 1, Box 725E, Escondido, Calif. 92025; include alternative choices of times and dates. Any questions? Call (714) 747-8702.

The park is about 6 miles southeast of Escondido in San Pasqual. To get there from Interstate 5 southbound, turn east at Oceanside on State Highway 78, then south on I-15 to Via Rancho Parkway; proceed east, following signs to the park. From San Diego, take I-15 north to Via Rancho Parkway. ▫





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New landmark *in downtown Los Angeles is lofty Fire Tower, dedicated to city's second-generation Japanese, the Nisei. Cherry blossom streamers and paper fish will be replaced by lanterns this month*

White face powder *and bright kimonos identify these ladies as Ondo dancers*

Serenely gliding *down First Street, classical dancers entertain spectators during Nisei Week parade*

New tower looks down on L.A.'s changing Little Tokyo

New August openings. And August dancing in the streets

AIG AURNESS

lue-tile roofs *of Japanese Village Plaza ramble from First Street (at tower) through to Second Street. Tile is Sanshu from Japan*

Cool down *with an icy snow cone—o popular here that you'll see shop signs aying "no snow cones inside, please"*

Little Tokyo in downtown Los Angeles is a place of sensory delights. Everything seems artistically attended to, from an old bonsai pine on a windowsill to a dab of green horseradish on a mound of rice. Even a deli case in a market takes on an artistic order.

It's not flashy. Nightclubs don't pour music into the street. Instead, the smells of tempura crisping in hot oil float in the warm night air, and the click of a teapot bumping a lacquered bowl breaks the low murmurs of appreciation that accompany a sushi chef slicing ginger as thin as a cherry blossom petal.

Cultural, commercial, and religious heart of Los Angeles's now spread-out Japanese-American community, Little Tokyo is on the southeast side of the Civic Center area. Though strictly speaking the district is larger, the part that interests visitors is small, with shops and restaurants concentrated in four square blocks.

A decade of redevelopment has brought forth the 21-story New Otani hotel, new housing, two churches, a community cultural center, and a shopping plaza whose blue-tile roofs wind through gray old buildings like a sunlit stream. Many low-rise buildings from the 1930s and '40s, looking stoically Midwestern, are still in evidence, but some are gradually being replaced.

This month two more projects are nearing completion and are expected to open soon: Weller Court, a shopping and dining arcade, and Honda Plaza, a low-density complex of offices and shops.

Beat the drum loudly . . .
Nisei Week Festival August 9 to 17

Stop by during this month's annual Nisei Week, a celebration started by second-generation Japanese-Americans (the Nisei) during the Depression, and you will experience a Little Tokyo where

Rooftop garden and waterfall, lunch served on a paddle, streetside shopping jumble

Most of your walking *will be in compact four-block area. New commercial centers, Weller Court and Honda Plaza, will open soon*

CRAIG AURNESS

Rooftop *Japanese landscape is outside restaurant at New Otani hotel. Large, two-level garden has waterfall, koi pool*

Passed on a paddle, *robata (country-style) lunch is served in many courses to these patrons seated at Yagura Ichiban*

Lacquered picnic boxes *come in many, many sizes at new Second Street quarters of Rafu Bussan*

every door seems open.

Usually quiet, the district comes alive during this time of street dancing, a parade, exhibits, and demonstrations that will keep the area spinning for nine days. It starts August 9.

One center of activity will be the new six-story Japanese American Cultural and Community Center on San Pedro Street. Pick up a schedule of festival events here or at most stores (or check events sections of the *Los Angeles Times* or *Herald Examiner*). In rooms throughout the building, you'll find exhibits of Japanese dolls, bonsai, flower arranging, cloisonné, and calligraphy, as well as demonstrations of the detailed, exquisitely polite tea ceremony.

Walk around to the rear of the building to look down on L.A.'s newest Japanese landscape, the James Irvine Garden, designed and planted mostly by volunteers with materials donated by landscape contractors, gardeners, and nurserymen. Here water tumbles through 300 tons of rock down to quiet pools in the lacework shade of bamboo. Usually open only by appointment (call 213/628-2725), it is expected to be the scene of special public tours during Nisei Week.

display of photographs and models of e work of sculptor Isamu Noguchi is anned for the center's main exhibit ıll. It will include a model of the new aza (which will feature a Noguchi ulpture), to be built alongside the nter.

ne highlight of the celebration is a hour parade (August 10, 3 P.M.), with panese dancers and bugle corps, arching bands and floats. From First reet and Central Avenue, it will travel est to Los Angeles Street, south to Sec- ıd, and east for two blocks. Then it will ad south again on Central and west on ird for half a block.

nother impressive event is 2 hours of ndo dancing and other entertainment ı San Pedro between Second and Third ugust 17, 5 P.M.). About a dozen Jap- ıese classical dance troupes in their stive kimonos will perform as part of e week's closing program.

or information on other activities, in- uding events at the Buddhist temples ıd the Union Church, consult the hedule or call (213) 687-7193.

etting there

rom U.S. 101 (Hollywood Freeway) uthbound, turn right on Los Angeles reet and then left at First Street. orthbound, take the First Street exit ıd drive west across the L.A. River idge. Along First Street, when you find urself among Japanese language signs ıd *noren* fabric panels flapping above early every threshold, you're in the heart of the district. Look for the Japanese Village Plaza Tower pictured on page 55.

Turn south at Central Avenue to park in the village garage ($2.50 maximum). The day of the Nisei Week parade, you may not find such close-i ı parking; try public lots in the Civic Center nearby.

On any day . . . a walking tour

Start in the village plaza. But before you lose yourself in the dozens of small stores, sweet shops, restaurants, and markets, step out to First Street and walk up and down both sides of the street as far west as the New Otani Hotel.

Stop to watch sushi being made in a sidewalk window or marvel at the speed with which a young cook flips hockey-puck-size bean cakes with a little poker. Gift shops are jammed with statuettes, lacquer bowls and boxes, bamboo trays, and jewelry. Japanese books crowd the window of one store; inside are writing implements, brushes of all sizes, ink blocks, rice paper folders. In the grocery store, look for Oriental vegetable seeds, including more than 10 kinds of radish.

At first, Anzen Hardware (220 E. First) looks like any other hardware store—the usual nails and knives, brooms and buckets. But crowding one shelf you'll find a horde of Japanese saws with their tight little rows of piranha teeth, long-handled chisels, wicked awls, and heavy hoes that are a cross between axes, picks, and weed choppers—just right for digging trenches in tough soil.

ooking down First Street *(at San Pedro Street), you see typical storefronts—here only signs herald the area's culture. Pedestrian traffic swells at noontime*

Among the shops at the New Otani, browse in the bookstore with its large selection of Japanese novels translated into English. There's also a big rack of Japanese records, which are expensive—most are around $13. Ask the proprietor if you can listen to some of the soothing electronic music by Japanese composers.

In the skylit lobby, relax in an overstuffed chair while you sip refreshments beneath a 36-foot-tall golden metal and fabric sculpture. Push "garden level" in the elevator to be delivered to the Japanese garden pictured on page 56.

From the hotel, walk down Weller or San Pedro Street to Second to discover more shops and restaurants. Enter a fish market in the plaza section on Second and the ocean smells of kelp, wet rock, and fresh fish greet you. A branch of Anzen Hardware offers gourmet cookware. Rafu Bussan (326 E. Second) has an impressive selection of Japanese china sets, lacquerwork, and dolls.

To go . . . sushi, bean cakes, sweets

Back at the village plaza, the market offers packaged *sushi* (rice and raw fish combinations) for about $1 a serving. At restaurants, look for announcements of sushi to go. Ikeda bakery has a large selection of pastries and a cosmopolitan array of breads. For a different taste experience, try a not-too-sweet curried-vegetable doughnut for 50 cents.

If you prefer to sit down and sip tea with your confection, stop in at Mikawaya, a snack shop just a few steps away.

At Mitsuru Cafe (336½ E. First), try a made-before-your-eyes *imagawa yaki* (a sweet bean cake) for 40 cents or cold *satsuma age* (rolled fish) for 20 cents.

Restaurants: 51 choices

There are 51 restaurants in Little Tokyo, a surprising number for such a small area. The best introduction to the variety of Japanese cooking is at Restaurant Plaza in the village. It's actually six restaurants under one roof, ideal for families with differing food preferences. To sample from all six menus—tempura, sushi, *udon* and *soba* (noodles), *kushi yaki* (barbecued food on a stick), *bento* (meal in a box), and steak and lobster—sit in the main room where a waitress will take your order. Each restaurant also offers bar seating—where watching chefs at work is half the fun.

Nighttime visiting

Like other metropolitan centers, Little Tokyo has its share of lonely side streets, and it backs up on a warehouse district.

But people, like moths, are drawn to the lights of the main streets, and you should feel safe among the wandering clusters of businessmen from Japan, residents, and tourists in the area for dinner. You can park nearby in the Japanese Village garage, attended until 9 P.M. □

MARGARET W. PETERSON

Beating side drum *with stick the size of a broom handle, drummer swirls along Faire byway*

On country bagpipe, *two drone pipes issue fixed tone while chanter (with finger holes) supplies melody*

Krummhorn *resembles a hollow cane with finger holes; it has a quiet tone*

Renaissance music all around you

Tabor and shawm, sackbut and bagpipe, krummhorn and vielle. Again at Marin's R.P.F. ...and elsewhere in the Bay Area

August marks the return to the Bay Are of the Renaissance Pleasure Faire, th roistering marketplace that re-creates th England of Elizabeth I. Among the crie of peddlers and 400-year-old conversa tions, listen for the pluck, thump, an toot of lively music as scores of mus cians perform there each day.

The staccato beat of the tabor heralds gypsy caravan, and courtiers dance t the reedy whine of the shawm. Pause t listen along a lane or on a hay bale i the shade of the oaks before one of fou stages. And if you want to hear mor Renaissance music, see the list on oppo site page of events in the Bay Area.

Starting in Italy in the 1300s, must came out of the churches and onto cen ter stage. After 1500, printed musi spread popular tunes, and anyone wh couldn't sing and play an instrument wa considered uncouth. Henry VIII encour aged secular music in England in the firs half of the 16th century; its popularit there lasted until about 20 years afte

Audience on hay bales *listens to consort of bass shawm, sackbut, alto shawm, vielle, and recorder. Shawms evolved into oboe; other instruments look much the same today*

the death of Elizabeth I in 1603.

Composers wrote their music to be played by any instrument, leaving it up to the players to orchestrate and ornament the piece. Players like the chance to be in charge, but it means that no two performances of the same work sound the same and a conductor would be out of the question.

Some groups include the same instruments in different sizes. In these groups or consorts, the instruments have a range resembling the human voice.

Instrument makers have contributed to the surge of interest in early music Many have researched and crafted instruments that more nearly re-create the original sound than is possible with their modern-day descendants.

The Faire starts August 2 and runs for six weekends through September 7, including Labor Day, from 9 to 6. Tickets cost $8.75 for adults and $3.75 for children under 12. Orders for the opening weekend postmarked by July 27 will cost $2 less per ticket; those postmarked by July 28 will be $1 off the regular price for other days. Write to: Tickets, Box 1112, Novato, Calif. 94947.

If you drive, take U.S. Highway 101 north of San Francisco 27 miles to California State Highway 37. Turn east and follow the signs pointing to the free parking area. This year for the first time, you can ride a shuttle bus to the Faire from the Ferry Building at the foot of Market Street in San Francisco. The $10 cost includes admission, and buses run from 8 A.M. through the day. □

Other Renaissance music in the Bay Area in August

August brings fewer Renaissance concerts to the Bay Area than at other times (we counted nine of them during May), but there are still several important events this month.

Workshops and concerts

August 1 and 2, Dominican College, San Rafael. A "Renaissance entertainment" based on festivities for the marriage of Cosimo I, Duke of Florence, and Eleonora of Toledo in 1539 will be held in Guzman Hall. The program, which starts at 8 P.M., will feature a large company of costumed musicians and dancers. It will be preceded by a Renaissance feast at 6 P.M. Tickets for both events are $22; for the concert, $5 ($3.50 for students and seniors). For reservations, call (415) 457-4440. On Saturday at 4 P.M., a free concert will be held on the lawn. Exit U.S. 101 at downtown San Rafael exit; follow signs to the college.

August 10, San Francisco. Amici Musicae presents Renaissance music of France in the Rodin Gallery of the Palace of the Legion of Honor in Lincoln Park. This concert is one of the monthly Music in the Galleries series performed amid the collections of San Francisco museums. The concert starts at 2:30 P.M., and the $1 admission to the museum admits you to the concert.

August 10 through 17, Healdsburg. A Summer Play and Workshop will be held at El Rancho del Obispo; a limited number of visitors can join participants at the final concert on August 17 at 8:30 P.M. Call (707) 433-2440 for information about the camp and tickets for the concert.

August 21, San Francisco. A free concert by Pastime with Good Company at 1 P.M. at the band shell in Golden Gate Park.

Radio programs

KPFA (94.1 FM) offers a program entitled Doulce Memoire on the first Monday of every month, including August 4, from [illegible] to 10 P.M.

KQED (88.5 FM) will broadcast Italian dances, canzones by Gabrieli, madrigals Tuesdays during August from 9 to 10 P.M.

KUSF (90.3 FM) presents early music from 8 to 9:30 P.M. Saturdays during the year.

And a musical society

The San Francisco Early Music Society promotes and is a clearing-house for music from the Middle Ages through the Renaissance to the Baroque era. Its monthly newsletter rounds up scores of musical events. The annual directory, for example, lists 37 instrument makers and 17 festival and concert series. Membership costs $15 per year. Write: 162 Hickory St., San Francisco 94102; or call (415) 848-5591.

GREGG MANCUSO

Owner *of Musica Antiqua demonstrates playing technique for soprano viola da gamba, precursor of modern cello*

JERRY FREDRICK

Members *of Pastime with Good Company are among some 40 groups that regularly perform early music in Bay Area*

Pots on blocks, pots in boxes on blocks

Geraniums in clay pots on a patio (above) and hydrangeas in boxes by an entryway (below) sit atop same leftover stained fir 6 by 6's. Boxes have recessed bottoms that fit over posts

DARROW M. WATT

Simple stand of staggered 2 x 6's

Freeform stand of four staggered 2 by 6's raises tapered pot of succulents. This combination adds interest to bed of rosemary and the stucco wall behind

Pot plant platforms

These all are made with lumber scraps.
They lift plants into view. They maximize color

Giving container plants a lift—on posts, pedestals, or platforms—can do more than raise them into easy view.

Gardens on posts can maximize flower color where garden space is limited, add splashes of color to an all-green garden, enliven a drab corner, relieve an expanse of paving or a bare wall, or embellish patio posts. They can be the stage—by an entry or just outside a window—for featuring each season's showiest plants.

Pictured here are five stands that call for no special carpentry skills.

Stands on our cover and at right. Each stand in the cluster has two legs of 2 by 4's with 2-by-4 spacers bolted between. The top shelf is nailed in place.

Each pot is anchored with a ⅜-inch lag screw that runs through a small block of wood, through the pot's drain hole, the shelf, and into the spacer block.

This is by far the sturdiest way to anchor pots to the posts, but it has a major drawback: the pots cannot be removed from the posts without digging out the plants. This method is most suitable for displaying seasonal annuals that you dig out when bloom is spent, or slow growers that don't need repotting often.

If you anchor pots this securely, drill extra drain holes in pot bottoms with a masonry bit.

An easier way to anchor a pot in a post is to sink a 4½-inch-long ⅜-inch threaded rod in a predrilled 1½-inch-deep hole in the post. The center drain hole slips over the rod, as pictured at lower right.

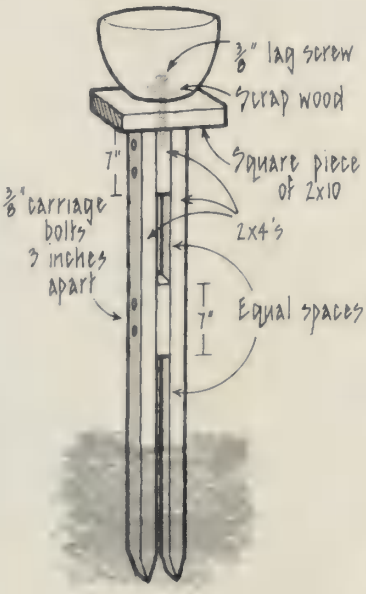
Treat the wood (where it will contact soil) with wood preservative; or use pressure-treated wood.

To seat the stands firmly in the ground, set them in holes about a foot deep. Fill holes with soil, straighten posts, then tamp soil firmly around them.

Post boxes. Each of the three 10-inch-high boxes sitting atop 6-by-6 posts at far left holds a gallon can; each box is made of almost 4 feet of rough redwood 1 by 8. Cut a 6¾-inch square for the bottom and 10-inch pieces for each side. Using galvanized finishing nails countersunk in predrilled holes, join sides with butt joints; recess bottoms 2 inches so that the planters slip over the post tops like loose-fitting sleeves. Finish all wood with a semitransparent stain.

Benches. Tops of the plant benches pictured below are 3- and 4-foot-long redwood 2 by 12's nailed to legs cut from 4-by-4 posts. Legs of all three were cut from one 8-foot-long post (eight 6-inch pieces for lower benches, four 1-foot pieces for the taller version).

Benches were lightly sanded and then finished with semitransparent stain. □



Two-legged stands lift annuals above the bed

Above a bed of flowering annuals, three stands at different heights lift more annuals closer to view. Make stands of 2-by-4 verticals, with tapered bottoms for firm positioning in ground; tallest uprights stand 4½ feet. Nail shelves to 2 by 4's

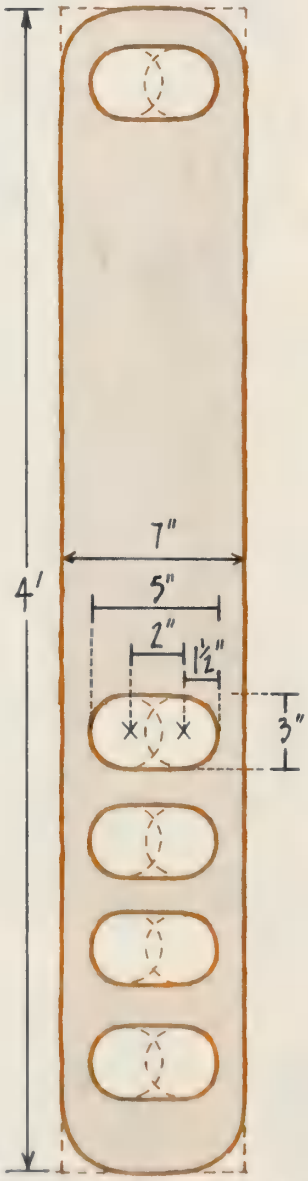
Window-level color atop plant benches

Stackable benches are shown here in simple two-level arrangement outside window

One way *to secure pots: set center drain hole over threaded rod fixed into predrilled hole in post. Note extra drain holes (drill them with a masonry bit)*

Walking high and higher

Two of our stilts challenge you. The better you get, the higher you go. The walking blocks are for beginners



DARROW M. WATT

Like climbing a ladder

Plywood planks with cutouts for feet and hands are cut from ¾-inch plywood. They're 4 feet long, 7 inches wide. Use a coping, saber, or hole saw to cut the holes. Trim corners with a handsaw and sand all edges smooth. Cost is about $4 per pair if you make three pairs

Conferring instant growth on their wearers, these homemade stilts also challenge the children's balance and agility. We made three different styles geared to children of different ages: each is tricky in its own way and requires some practice to master.

For six-year-old Tod, we made low-rise blocks with clothesline loops. To work properly, the blocks must be pulled tight against the feet with the ropes. As taller blocks are more difficult to walk on, make them squat for very little children.

For 11-year-old Kim, we made plywood planks with cutouts for feet and hands. Thirteen-year-old David's classic stilts have wedges at three levels for increasing challenge.

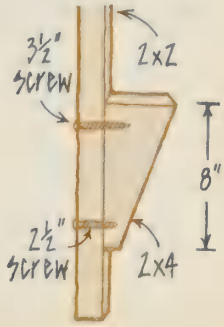
To seal the wood, soak ends that will touch the ground in water-repellent preservative, then apply it to other surfaces as well. □

Pull-'em-tight blocks on ropes

Blocks for beginners are cut from clear redwood 4 by 4's. Drill a ½-inch-diameter hole through the block 1 to 1½ inches from the top. Run a length of clothesline through the hole and tie securely so hands are near hip level when loop is pulled tight. These cost about $4

Three wedges for a choice of height

Trilevel stilts for the upwardly mobile are made from two 7-foot lengths of clear redwood 2 by 2. From a 3-foot 2 by 4, cut six 8-inch wedges for footrests; sand all edges. Starting 4 to 6 inches from the bottom, attach wedges one above the other with 3½-inch woodscrew at top of each wedge and 2½-inch woodscrew at bottom. Cost is about $14



Show business with melon

Big honeydew wedge with ginger, cantaloupe serving dish, mint ice melon cubes, casaba salad, crenshaw wedge circles

The melon harvest peaks in late summer and early fall in the deserts and fertile valleys of California and Arizona, where more than 70 percent of our country's melons are grown. Midway in a season that stretches from the first cantaloupes of May to the last casabas in December, you can expect to find the most varieties, best prices, and the most succulent melons of the year.

This is an opportunity to learn to appreciate the unique qualities of each melon variety. Serving suggestions offered here —some of them very simple—help point up subtle differences in flavor and texture. Experience, for example, the delicate, crisp sweetness of an ice-cold honeydew or casaba accented only with a pungent sprinkling of candied ginger. Or discover how our spicy nut mixture can brighten the rich fullness of a cantaloupe, crenshaw, or Persian.

We also bring you some new ideas for melon salads. One pairs fragrant bites of Persian or cantaloupe with cubes of jack cheese and a tangy curry-flavored dressing. The other mixes cool honeydew or casaba and red-ripe tomatoes with a tart mint dressing.

A treatment that seems to enhance all melons is a crown of lemon-mint ice. Serve melon iced this way as an appetizer, for dessert, or at breakfast.

Melon with Candied Ginger

Finely grind several pieces of candied ginger, a few at a time, in a blender container or, with short bursts, in a food processor fitted with a metal blade. Spoon into a small serving dish and pass at the table to be sprinkled over wedges or cubes of chilled honeydew or casaba.

Spiced Almonds and Melon

Toast blanched whole almonds in a 350° oven or a toaster oven, shaking pan occasionally to turn nuts, for 10 to 15 minutes or until golden; cool. For each ½ cup almonds, add 2 tablespoons sugar and ¼ teaspoon ground nutmeg. Whirl mixture until finely ground.

For appetizers: cut cantaloupe, Persian, or crenshaw melon into two-bite-size wedges and let guests dunk melon into nut mixture to eat out of hand. *As salad or dessert:* sprinkle the nut mixture over wedges or bite-size cubes of these melons.

Melon-and-Cheese Salad with Curry Dressing

For the dressing, combine 1 cup unflavored yogurt, 4 teaspoons Major Grey's chutney (chopped), 2 teaspoons honey, and ½ teaspoon curry powder; add salt and pepper to taste. If made ahead, cover and refrigerate.

Scoop out flesh (discarding seeds) from a cantaloupe, Persian, or crenshaw melon to make 3 to 4 cups melon balls or cubes. Cut ½ pound jack cheese into ½-inch cubes and mix gently with melon. If desired, spoon back into hollowed melon rind. Pass dressing to spoon over servings. Serves 4 to 6.

Melon, Cucumber, and Tomato Salad

For the dressing, combine in a small jar, ½ cup salad oil, ¼ cup lemon or lime juice, 2 teaspoons sugar, ½ teaspoon salt, ¼ teaspoon pepper, 1 tablespoon *each* finely chopped parsley and fresh mint leaves; cover and shake well. If made ahead, cover and refrigerate.

About 1 hour before serving, cut a casaba or honeydew melon in half, scoop out seeds and peel off rind. Cut each half into thin wedges and place in a salad bowl along with 1 thinly sliced English cucumber (peel if desired) and 4 large (about 2 lbs.) firm, ripe tomatoes, peeled and cubed. Pour dressing over and stir gently to mix. Cover and let stand at room temperature until serving time, stirring once or twice. Serves 6 to 8.—*K. W., San Francisco.*

Melon with Lemon-Mint Ice

In a saucepan, combine 2 cups water, 1 cup sugar, and 1 tablespoon grated lemon peel; set over medium-high heat. Bring to a boil, stirring, until sugar is dissolved; then boil for 5 minutes. Remove from heat and stir in 1 cup fresh mint leaves (lightly packed). Cover and steep for 15 minutes. Discard mint.

In a small bowl, combine mint syrup with ¾ cup lemon juice. Cover loosely and freeze at least 4 hours or until mixture is solid. Break up with a spoon; then beat well with an electric beater first on low speed, then on high speed until light-colored and slushy. Cover well and freeze until solid. Makes 1 quart.

Cut a chilled and seeded melon into wedges or cubes and top with 1 or 2 scoops of ice.

How to select a ripe melon

Cantaloupe. Look for a dry, gray netting that stands out over green-gold rind. Also, check stem end for a smooth scar, which indicates the melon was fully mature before picking. Sniff for a sweet-cantaloupe fragrance. To store, refrigerate up to 5 days.

Persian. As with cantaloupe, look for a clean stem end and raised netting (although it will be more sparse and less pronounced than a cantaloupe's net). As these melons ripen, the dark green rind turns light grayish-green and gives under gentle pressure.

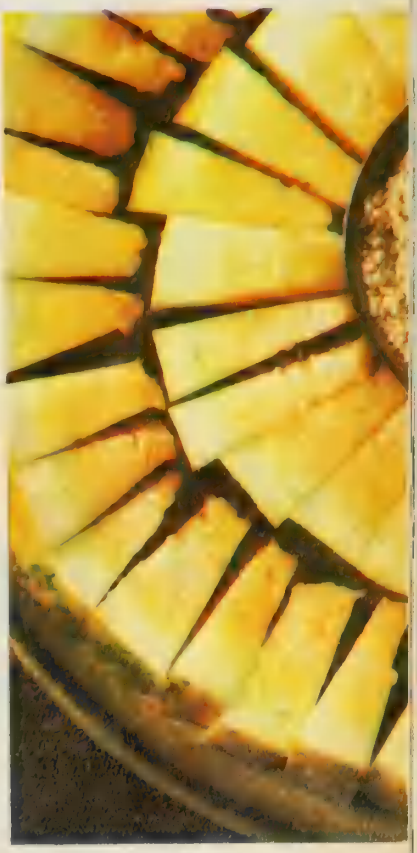
Honeydew. Choose a creamy, greenish-ivory melon with a smooth, waxy feel; don't expect a smooth stem end. Blossom end may be slightly soft. Also sniff for a mild, sweet melon fragrance; honeydews won't ripen much further if held at home.

Crenshaw. Look for smooth, mottled-green rinds that have turned golden and are softening, especially at large end. You should detect a distinct melon fragrance. Golden yellow crenshaws should be chilled and consumed within 3 days; they're especially perishable.

Casaba. The tough, wrinkly rind turns a definite yellow and the stem end is slightly soft when this melon is ripe; there's very little fragrance. Stored in a cool, dry place, these will keep for several weeks. ◻

Chilled dessert or appetizer: *ground candied ginger enlivens wedges of honeydew*

First course or main dish: *cantaloupe and buttery jack cheese topped with tangy curry-yogurt dressing*



Easy appetizer, salad, or dessert: *dunk crenshaw wedges (two-bite size) into ground almonds and spices*

art, refreshing appetizer or dessert: *crown ubes of honeydew with lemon-mint ice nd garnish with sprig of fresh mint*

Cool summer salad: *blend juicy casaba, chunks of tomato, and sliced cucumbers with a light mint-citrus dressing*

Hoots of laughter *applaud after-lunch theatricals, played from brick patio to audience assembled on steps and deck*

Theater in the garden. Audience on the steps

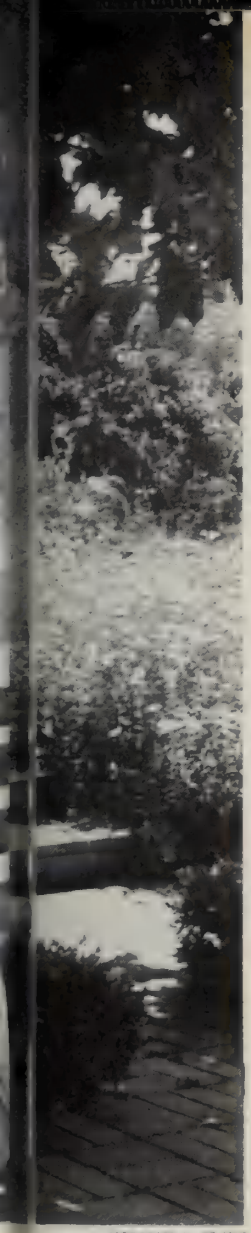
There's deck above, roomy brick patio below, a leafy arbor and pleached sycamores overhead

Here's a garden where you can stage a full-dress play, strike up a band, throw a large reception, or just have breakfast in the sun. And since owner Mary Laporte is an artist, it's sometimes an outdoor gallery, too.

What makes all this possible is an L-shaped, house-floor-level deck system dropping down to a paved garden area in long, broad steps that are almost like seats in an amphitheater. Guests can move freely between decked areas and garden spaces, taking seats wherever they like.

The narrower arm of the deck L sweeps along the house like a large engawa, unifying the exterior as it widens where the house is set back (see plan).

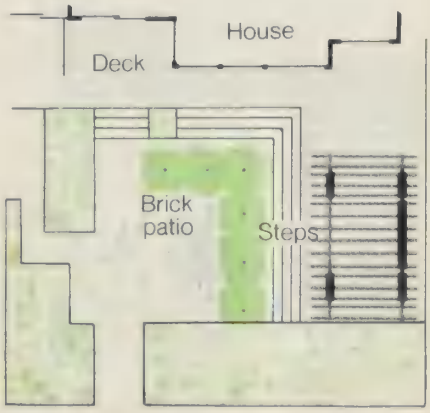
The thick part of the L is a 16-foot-wide deck that projects 28 feet into the garden. Centered on it is a sturdy 8-foot-high arbor of 2 by 8's, held aloft by 6- by 6-inch posts that rest, below the platform



NORMAN A. PLATE

Sit where you like—*steps, benches, or chairs. In a few more seasons, arbor will be leafily draped with clematis and bougainvillea*

Boxes brimming *with fern asparagus form a space divider along back edge of deck*



Plan shows *how deck, steps, arbor, and trees merge house and garden*

of the deck, on concrete piers. Built-in benches are tied between pairs of 6 by 6's. Decking and steps are of 2 by 6's; each step is three boards wide.

Below the steps is an 18- by 18-foot level garden area, paved with brick-on-sand in a basket-weave design. There are no dividers inside the paved expanse, but wood headers border the space to confine the bricks. Within this enclosure are six square planting pockets, each containing a sycamore tree underplanted with boxwood. As the sycamores grow, their branches will be pleached (interwoven) to form an aerial hedge.

The trees were planted four years ago as skinny whips and topped at 8 feet. The first level of branches starts where the trees were cut. Annual pruning will keep the trees low and compact; it's not intended to let them spread out in a broad canopy. Sycamores take kindly to this kind of shaping.

Opposite and complementing the L of the sycamore plantings, flower beds flank the bricked area with a varied collection of color-makers: agapanthus, asters, columbine, daylilies, delphinium, gypsophila, lilies, marguerites, moraea, raphiolepis, and an assortment of spring and summer bulbs and annuals.

The landscape architect was Roy Rydell of Santa Cruz, California. □

Taken in spring *before sycamores have leafed out, this photograph shows patio eating area, planting beds. A gate in low fence leads to small orchard beyond*

Bloated *with blood, she'll lumber off to produce eggs. Only female mosquitoes bite; males feed on plant juices*

JACK KELLY CLARK, UNIVERSITY OF CALIFORNIA

Underwater view *of ¼-inch mosquito larvae. They'll change into pupae, then emerge as adults—usually in just a week*

Darth Vader *of the insect world: Culex tarsalis, the Western encephalitis vector or carrier. Her tiny, saw-like stylus cuts into a blood source. Despite impressive eyes, mosquitoes can't see clearly beyond a few inches; other senses guide them to victims*

A good (bad) year for mosquitoes

That's how it is in 1980. Here are the threats, and why this year. And here is what's to be done

Talk to one Westerner and you may hear "Mosquitoes? Never a problem. Now when I lived in the East, they were as big as . . . "

Talk to another, living a few miles away, and he'll just scratch and cuss.

In the West, mosquito misery and mosquito-free haven are often not far apart. Our landscape offers diverse habitats for mosquitoes—about 70 known species. You'll find mosquitoes where there are irrigated lands, high-country meadows, garden ponds—and buzzing around your bedroom. Each species has unique feeding habits, though most fly at dusk.

This is a good year for mosquitoes. Plenty of rain last winter meant that spring's swarms bred into August's countless progeny. Budget cuts in many control programs (California's budget was cut roughly in half) have experts worried about mosquito-borne disease—particularly encephalitis (inflammation

of the brain), which is endemic to the West. California Senate bill 382, approved in April, may ease the situation —especially in the Central Valley—with $3.25 million in emergency funds.

Where do they breed?

Mosquitoes need standing water to develop. The larvae must swim. If you've got standing water on your property, get rid of it or use a method described below to control mosquitoes.

Some mosquitoes migrate for miles, but many don't fly far if a source of blood is nearby. Deny them breeding places (ask your neighbors to do the same) and you can dramatically reduce your problem. What about those saucers under your plants? A plugged outdoor drainpipe? A neglected swimming pool? Most mosquitoes need only a week or so to complete their egg-to-adult cycle; a few kinds require just three or four days.

Many Westerners live in a mosquito abatement district. Call and ask for advice if you have a water source that can't be easily drained. Officials often spray open water with a light petroleum oil toxic to the larvae. It's best that you don't try this on your own in valued garden ponds.

Misting or fogging your yard or house with an aerosol insect spray—as you might just before a party—may knock down adult mosquitoes for the few hours you need. So will light traps . . . to a degree (place them away from outdoor living areas). But more attackers will be back soon. For lasting results, control the source.

Little fish, big appetites

Garden ponds can be prime breeding sites. That's where voracious little *Gambusia affinis*, swims into the picture. "Mosquito fish" gulp larvae, and they're provided free by many control agencies.

How do you escape the biters?

Why do they come after you? And why are some people seldom bothered by mosquitoes? Researchers cite so many factors—exhaled carbon dioxide, moisture, warmth, movement, color—that we may never know exactly why. But there are ways to make yourself downright repugnant to the ladies' advances (only females bite).

"Jungle juice." An effective repellent works by "jamming a mosquito's radar"—blocking its sensors and turning off attraction. Repellents blended to control a variety of insects including mosquitoes are sold in five basic forms: liquid, lotion, stick, aerosol spray, and towelette, each offering varying degrees of convenience.

If you check the active ingredients on the repellent's label, you're likely to find diethyl-meta-toluamide, often substantial percentages of it. (Some outdoorsmen swear this stuff is the secret weapon, but researchers are debating just how much of this chemical a repellent ought to have.)

And despite efforts to make repellents more cosmetically acceptable, some people feel coated and uncomfortable when they wear them, and some don't like the idea of smearing their skin or spraying their clothes with chemicals.

Light-colored clothes. These seem to be less attractive than dark-colored clothes.

Cover up. In mosquito country, you'll want to wear long-sleeve shirts, long pants, head nets ($4), even gloves (particularly if you plan to paddle or row). Note that mosquitoes can bore through clothing that's too thin or too loosely woven. Net jackets with hoods ($30 from fishing and outdoor gear suppliers) are designed to be impregnated with repellent. You can also buy mosquito netting (ask if it's flame retardant) by the yard for use in tents or to go over cribs.

Vitamin B and other "systemic repellents." Most researchers feel there's no proof that they are repellents. Same is true of electronic gadgets.

Stocking programs are most active in Arizona, California, Hawaii, Nevada, Oregon, and Utah. Washington outlaws *Gambusia;* they don't want them competing with trout in natural waters (however, two counties—Benton and Walla Walla—have special programs).

If larvae are abundant you might have to skim them from the pond with a dipnet before stocking in order to give the fish a leg up on controlling larvae. Keep water free of algal mats that might protect larvae. (Ponds beneath mulberry, eucalyptus, and walnut trees will not support minnows if leaves fall in the water.) The colder your climate, the less chance *Gambusia* have of making it through winter. Restock each spring, if necessary.

Stocking a garden pond, *control man introduces Gambusia. These larvae-eating fish are available free in some states*

DAVID STUBBS

Any here? *He's looking for Western treehole mosquito larvae. He'll fill tree cavity with sand to prevent more breeding*

The elusive treehole mosquito

Wooded areas, mostly in the coastal states, support Western treehole mosquito (*Aedes sierrensis*). That's a female pictured in the top left corner. They lay their eggs on the sides of rot holes in trees, and when collected rainwater (or water from sprinklers) floods the eggs, they're on their way. Thousands can emerge from one site.

Treehole mosquitoes often limit their flight to a few hundred yards, so join your neighbors in examining all trees in the area.

Most holes should be dry now, but this is the time to fill all holes with sand. You may find it safer to hire a tree service man to do the climbing.

Not only a vicious biter of man, *A. sierrensis* is now known to carry heartworm to dogs. If untreated, these parasites mature and reproduce in dogs' hearts, with often fatal results. The problem is already serious in coastal California. Ask your veterinarian if your dog should be put on a preventive drug.

A promising new bacterium

The big jobs—millions of acres of water, irrigated land, marshland—require professional mosquito-fighters, who may soon have a new control agent at their disposal. Researchers are excited about the bacterium BTI, which produces a toxin lethal to mosquito larvae, yet doesn't affect beneficial aquatic life. BTI, and many other new controls under development, especially since the curtain fell on DDT, may someday eradicate one of the biggest killers in mankind's history—malaria. □

Breakfast Tostada
Nestle 1 or 2 eggs, cooked as you like them, on a bed of shredded iceberg lettuce that's been sprinkled with corn flakes. Garnish with avocado; drizzle with prepared taco sauce

Carin's Cottage
Add 2 to 3 tablespoons each raisins and crumbled crisp bacon to a scant cup of cottage cheese. Season with ⅛ teaspoon ground nutmeg and garnish with salted peanuts. Serve sliced nectarines and muffins on the side

Which salad for breakfast?

You are skeptical? So were most of our tasters. But tasting made it a different story

She's skeptical. Little Carin is pleased. He thinks croutons are fun. They're all reacting to our latest proposal for starting the day—salad for breakfast. (Remember soup for breakfast, in the May *Sunset?*)

Our breakfast salad idea goes back to Grandma Schuh, who prepared breakfast for the elders of her church every New Year's Day. She always made extra, so for her children and grandchildren this breakfast was also a once-a-year treat. Because her herring salad (pictured above at far right) is as enticing on a warm August morning as in January, we began to expand the breakfast-salad idea. After all, travelers in the Middle East and elsewhere often encounter tomatoes and other vegetables, yogurt, cheeses,

DARROW M. WATT

Cereal-Crouton Toss
Sprinkle bite-size shredded wheat biscuits over salad greens studded with sliced hard-cooked eggs and bacon-flavored bits. Add your favorite dressing and toss

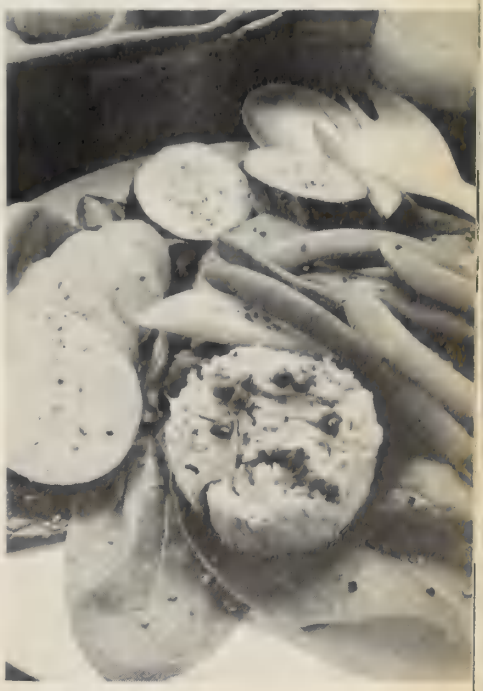
Grandma Schuh's Herring Salad
Combine 1 jar (11½ oz.) herring (in sour cream), 2 hard-cooked eggs (sliced), ⅓ cup chopped dill pickle, 2 tablespoons chopped parsley, and 1 medium-size tart apple (cored and chopped). Garnish with pickled beets and lemon wedges

avocados, and unexpected fruits on the morning menu.

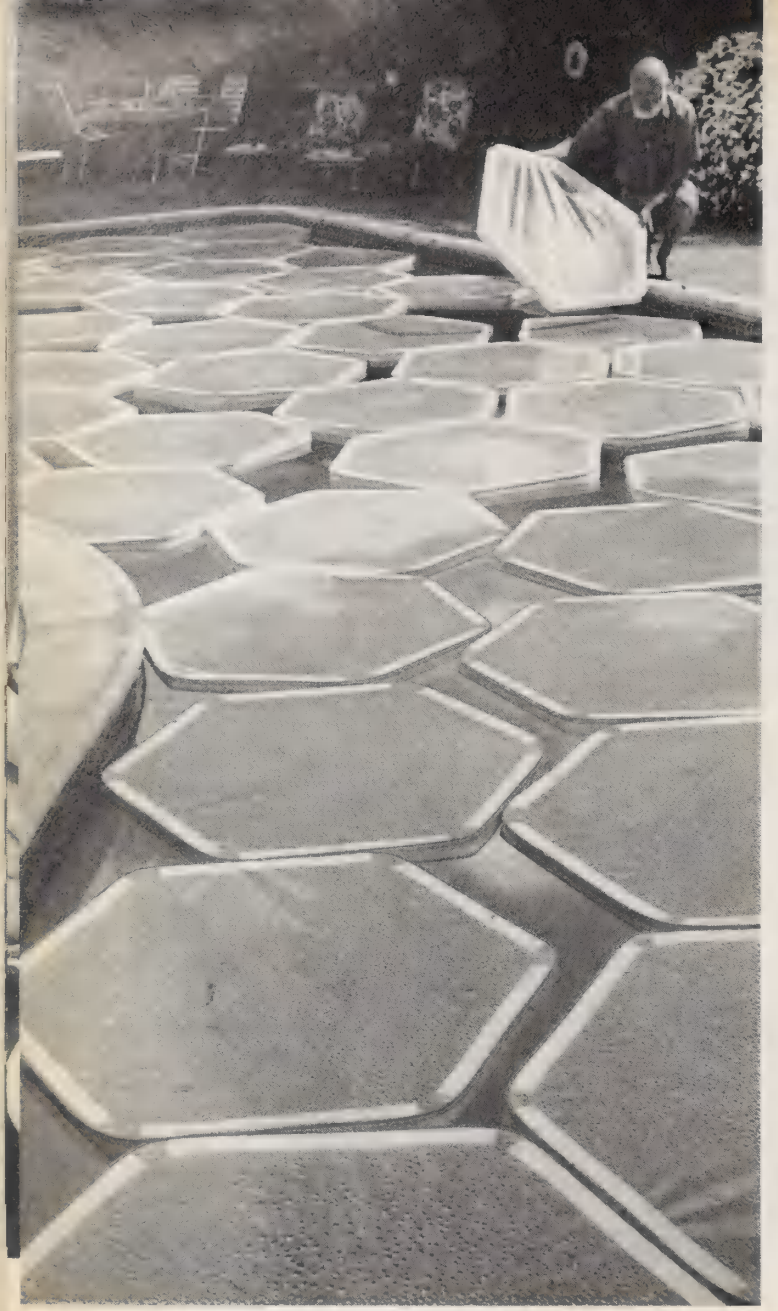
The famous Israeli breakfast served in Jerusalem hotels always includes salad elements—chopped tomato and cucumber, also onion—as well as fish, eggs, and ground garbanzo beans.

After sampling all six of our brainstorm breakfasts, even the skeptics agreed: a cool, nourishing breakfast salad makes an interesting wake-up for the day. □

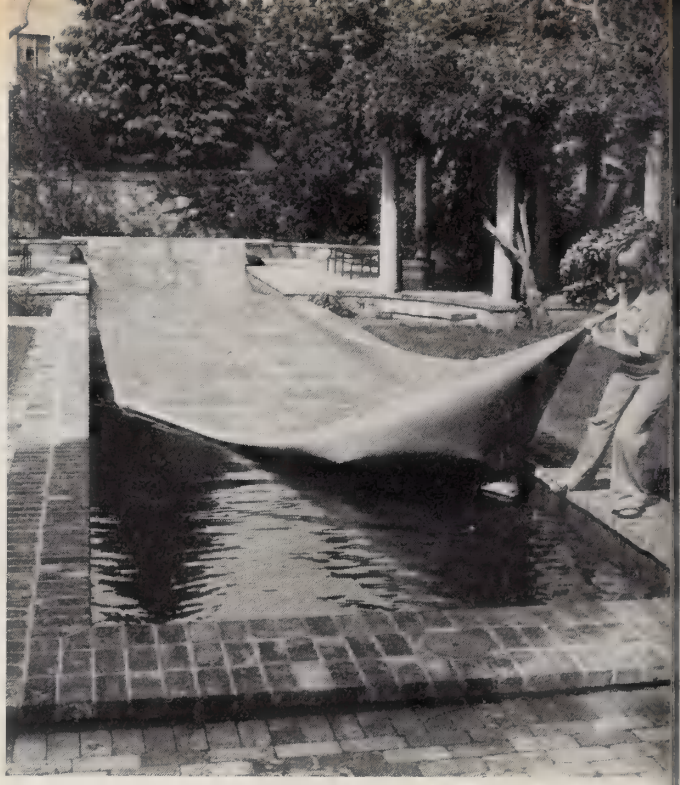
Ham and Honeydew
Cut a generous wedge of chilled ripe honeydew melon. Top with cubes of fully cooked ham. For the finishing touch, spoon spiced apple yogurt over all



Breakfast Niçoise
Arrange chilled cooked vegetables on spinach or lettuce leaves with tuna or cold cooked meat. Drizzle with an oil-and-vinegar dressing; add capers, if desired



Plastic-covered hexagons *float on water. Each covers about 8 square feet, costs about $14; you'd need 52 for 16- by 32-foot pool*



Opaque foam cover *closes off lap pool after use, pulls from roller at far end; a twist of the hand crank rolls it up. Cost: about 80 cents to $1 a square foot*

Owner-designed *translucent 12-mil plastic cover anchors with plastic grippers, cord, nails. Strips and edge were heat-sealed. Cost: 26 cents a square foot*

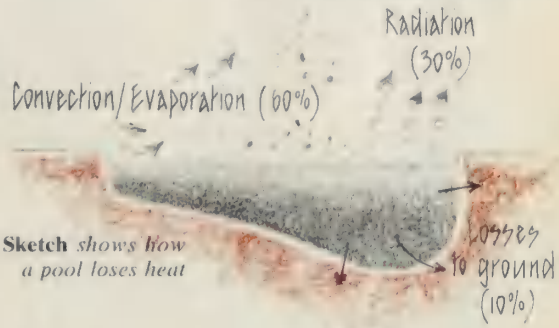
The case for a pool cover

It's stronger than ever this energy-short year. Choices vary. So do prices. So does convenience. Here is a rundown on types, costs, also hazards

DARROW M. WATT

Bubble cover *rolls into bench that doubles as diving platform; white plastic flap protects cover from sun. Design: Greg Barber, Palo Alto, California. Close-up (right) shows insulating and heat-trapping bubbles; about 60 cents a square foot*

Foam cover, *custom-cut to fit freeform pool, allows one lane to be peeled away for serious swimming; 32 to 50 cents a square foot*



Sketch *shows how a pool loses heat*

There's no question that a good cover can reduce a swimming pool's energy consumption. And this year there's more reason than ever to use one during warm summer months. The inverted gas rates ("the more you use, the more you pay") now employed by some utility companies can double pool-heating costs over what they were last summer.

Because a properly fitted and used cover reduces heat loss from a pool, it decreases by 40 to 70 percent the amount of fuel needed to keep the water at a "comfortable" range of 78° to 80°. Some covers not only conserve heat but allow the pool to collect heat from the sun, often eliminating the need for heating fuel in summer—and possibly extending the swimming season by a month or more. By helping to keep debris out of the pool, a cover can also reduce the amount of time and electricity needed to operate the pump and filter system. And if you're considering solar heating, a pool cover can help reduce the required size of an active system.

(For more energy-saving ways to maintain swimming pools, see page 92.)

The choice of covers on the market is widening, and some inventive pool owners are even devising their own. Here we show and describe several. (One type that we don't show, the inflatable dome, covers the pool like a greenhouse. Because the air inside becomes warm and humid, most owners prefer not to use inflatable domes in the summer.)

Except for the owner-designed round translucent cover pictured at left, the covers shown on these three pages are sold through pool supply stores (look in the yellow pages under Swimming Pool Enclosures or Swimming Pool Equipment and Supplies).

When you buy a cover, remember that it may deteriorate from the sun's ultraviolet rays and pool chemicals and may last only a few years—though given proper care, it should last longer. Inspect warranties carefully and compare costs.

Since covers cut energy use, they qualify for tax credits in some states; check with your utility. Whether a cover qualifies for an energy tax credit may depend on

Woven vinyl cover *is safety barrier. The flip of a switch moves it along tracks recessed under coping; about $3,400 installed*

its warranty. (In California, covers must have a three-year warranty to qualify; the 55 percent solar tax credit expires December 31, but chances seem good that it will be extended.)

What causes heat loss?

Evaporation is the biggest single cause of heat loss. In the process of changing from liquid to vapor, water at the surface of the pool absorbs heat, taking it away from the water below. An uncovered pool loses a tremendous amount of water by evaporation to the surrounding air—especially in hot, dry climates. *Convection* (wind and cool air remove heat from the pool's surface) and *radiation* (a warm pool radiates heat directly to the cooler sky) add to the heat loss.

High winds, cool air temperatures, and high pool temperatures increase convective losses. Radiation losses increase when the sky is clear, humidity low, and water temperature much higher than air temperature, especially at night.

While all covers reduce the loss of water and chemicals by evaporation, they differ in their insulation value and in their ability to take in and transfer the sun's heat to the pool water.

What kinds of covers?

Basically, there are four types of pool cover: transparent, translucent, opaque foam (insulating), and opaque plastic sheets (noninsulating).

Transparent and translucent covers are sometimes called "solar" covers because they allow a major portion of sunlight that hits them to penetrate deeply into the pool, warming the water. They are especially effective for unheated pools that also receive unobstructed sunlight; on sunny days as early as April in warmer areas, for example, they can keep the water under them at 80° or more without heat from additional sources. If you use your pool only a couple of hours a day, they may be the most efficient. But uninsulated transparent sheets will let more radiant heat escape at night than opaque covers.

The translucent air cell or "solar blanket" looks much like plastic sheets used for packing fragile objects for shipping. Bubbles of entrapped air form an insulating barrier so that heating and some insulation occur simultaneously.

Opaque foam covers, also called "thermal covers," are generally made of nonabsorbent plastic foam with an upper layer of tear-resistant material. Floated on the water's surface, they are especially effective insulators at night (they can reduce a normal temperature drop of 4° or 5° to 1°), but unless they are removed during the day, they can greatly reduce the amount of sun's energy that is transferred to the pool water.

Opaque plastic sheets are usually made of light to dark woven plastic materials and are anchored above the water at the sides of the pool. Sunlight doesn't readily penetrate dark or black covers but is absorbed by them. As a result, only the top few inches of water in contact with them gets heated by the sun.

Taking them off, putting them on

Because large covers, especially the floating types, can be awkward to handle, many pool owners have rollers installed to ease the job.

Shop at pool supply stores for such rollers and stands; they run from about $185 to $300, or about $600 to $1,900 for rollers and wooden bench lockers. Or write to L. M. Dearing Associates, Inc., 12324 Ventura Blvd., Studio City, Calif. 91604, or Semco, 626 Glenbrook Dr., Palo Alto, Calif. 94306.

A few words about safety

Floating covers won't protect children and nonswimmers who might fall into the pool. Other covers are designed to do so, but allowing anyone to walk on one should still be discouraged. Anchored at the sides of the pool with tracks, ties, or grommets, these serve as safety barriers when closed. The track type can be automatically opened or closed with the flip of a switch. A less expensive version (about $1,600 installed compared to $3,400) can be pulled from a roller at one end of the pool and anchored to the decking with grommets.

All covers should be removed *completely* before children or inexperienced swimmers use the pool. Accidents have happened. It is possible for someone to swim or dive under a cover and become trapped—then get confused, panic, and drown. □

DARROW M. WATT

Also automatic: *corrugated fiberglass on aluminum and steel frame that raises and lowers hydraulically; about $6,000*

Save $200* on this Cosmolite sofa group from Sears

Sears
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July 27-August 23, 1980

Exciting Cosmolite—seen below—gives you three independent sofa units at one sensational price. Just $1299.88 for the left arm wedge, right arm wedge and armless demi. Velvety sofa sections you can arrange into an "L," a sofa pit, or even a free-standing island. All have front casters for easy moving, and sturdy reinforced frames. Sofa upholstered in durable acrylic velvet and treated with SCOTCHGARD® Brand Fabric Protector to help resist stains.

Save on matching sofa sleeper. Need sleeping space in your living room? The center armless section is also available as a convertible sleeper.

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*These are the minimum savings nationally. Regular prices vary in some markets. Prices and dates may vary in Alaska and Hawaii. Available in most larger Sears retail stores.

Put together an exciting Manhasset modular sofa pit—with $20-30* savings on matching pieces.*

Sears Where America shops for Value

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Comeback for an old deck. It is work and worth it. Here's how

1 · *Putty knife dislodges debris that gets stuck between decking*

2 · *If boards need replacing, first treat exposed foundation with wood preservative. Avoid skin contact*

3 · *Using a stiff bristle broom, scrub the deck with a solution of TSP*

4 · *Sponge soaks the wood with a solution of oxalic acid. Wear rubber gloves for protection*

PETER O. WHITELEY

5 · *Long-handled roller eases task of applying water-repellent preservative*

A good maintenance program for a wooden deck means more than an occasional pass with a broom or a less frequent hosing down.

Stop to consider what a deck endures: Sun and rain beat down on it. The wood swells, shrinks, and tries to twist against the nails holding it in place. Its horizontal surface weathers five to six times faster than vertical exterior surfaces. Dirt, gravel, and leaves become wedged between deck boards, trapping moisture which can lead to trouble. Outdoor furniture, potted plants, foot traffic, and water may further mar its appearance with scratches and stains.

Whether your deck is built of redwood, fir, cedar, pine, or hemlock, when you consider the cost of lumber these days, it makes sense to protect your investment by prolonging its life and enhancing its appearance.

Here we describe a maintenance program for decks that have been left to weather naturally or that have previously been stained with a semitransparent stain. (Painted decks or those treated with opaque stains present additional problems due to moisture buildup, cracking paint, pigment deterioration, and tracking in heavy-traffic areas.)

The deck being reconditioned in the photographs is a 15-year-old, ground-level redwood deck that was basically well constructed but has received little attention over the years. It was typical of many older decks: free from major structural problems, gray with age and accumulated dirt, with a board or two in need of replacing.

Starting the cleanup

First step is to clean out the cracks. Years of garden debris can fill them, slowing down drainage to the point

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where there may be dry rot damage. Our test deck required the use of a putty knife to unplug the cracks because the boards were set very tight. (Recommended spacing is about 3/16 to 3/8 of an inch apart.)

Since you'll be spending a while on your knees for this chore, consider wearing a pair of kneepads. While you're down there, check for board warpage and popped-up nailheads. It's best to countersink nails about 1/16 inch below the deck surface. (If nails are staining your deck, start by countersinking them.) This is also the time to replace any boards that are damaged.

Next step is to clean the deck's surface thoroughly using a stiff broom or scrub brush, a solution of trisodium phosphate (TSP), and a lot of elbow grease. We found this heavy cleaning restores much of the original color of the wood. We mixed 1 cup of TSP to a gallon of water. For heavily shaded areas where mildew or mold can build up, add liquid bleach (a cup per gallon of water). Thoroughly rinse the deck. Repeat the process for problem areas. For hand scrubbing, it's wise to wear rubber gloves; consider wearing protective goggles for an extra margin of safety. These preliminary cleaning steps should be repeated once a year after the deck has been reconditioned.

Oxalic acid for brightening wood

The gray look of old wood is a natural result of aging. The deterioration process cannot be stopped (wood stains slow it down), so don't expect the color of a brand-new deck to remain very long.

If your deck has not been stained, you can restore some of its natural color by applying a solution of oxalic acid. (Wood must be cleaned first.) This acid brightens the wood; it is also useful for removing stains caused by nails. Oxalic acid is sold at many paint and marine supply stores. Cost is about $3.50 for 16 ounces of crystals.

Put on rubber gloves, since oxalic acid can cause skin irritation. (A useful hint with rubber gloves: fold the tops over once to form a trough that will prevent the acid from running down the glove onto your arm.) Mix 4 ounces (dry weight) of the acid with 1 gallon of hot tap water, stirring constantly until the water clears and crystals are completely dissolved. Apply the solution liberally with a large sponge. Rinse all metal that the acid contacts or it will accelerate rusting.

Avoid application in full sun. For maximum effectiveness, apply the solution early or late in the day or when the sky is overcast. The longer the acid's drying time, the greater its brightening effect. After the deck has dried completely, hose it down thoroughly to remove any acid residue.

Preservatives to protect decking

Probably the best protection you can give your deck is to coat it with a water-repellent wood preservative. These clear coatings prevent the wood from absorbing water, thus reducing the swelling and contracting that lead to cracks, splinters, and warpage. Mold buildup is also reduced, and termites are discouraged by chemicals in the preservative.

If you're building a new deck, apply the preservative liberally on the foundation, particularly where the decking overlaps any beams or joists (this is where moisture is trapped longest). Give wood ends several coats (end grain can absorb a lot of moisture).

After you've cleaned your older deck with TSP and applied oxalic acid, let the wood dry for a few days before treating it with preservative. On our well-weathered test deck, the estimated application of preservative was 1 gallon ($8 to $10 per gallon) for every 120 square

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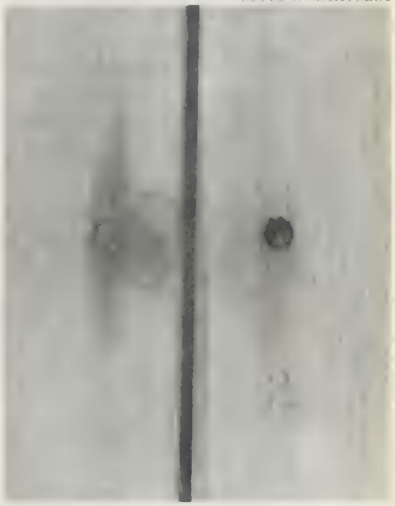
feet. On a new deck, a gallon should cover about 150 square feet because of the higher moisture content of the untreated wood cells. Do not apply the preservative in full sun; give it plenty of time to penetrate the wood.

Read the instructions carefully before using a preservative. Exercise caution if you apply it near plants—some preservatives contain chemicals that also act as defoliants. Again, wear gloves. Let the deck dry thoroughly before walking on it.

(If you need to replace any boards, check the deck's foundation for signs of dry rot. Cover exposed foundation beams or joists with preservative before you replace decking, and treat the new board with preservative before nailing it into place.)

For optimal protection, reapply the preservative every one to two years, depending on exposure and traffic. This can be expensive, so a more practical solution would be to check heavy traffic areas and apply as needed.

PETER O. WHITELEY



Countersink *protruding nailheads with nailset (left). Right picture shows difference between stained, untreated wood (left board) and wood treated with oxalic acid solution and with the nail countersunk*

Staining a deck

New wood can keep its natural color with wood-tone semitransparent stains. These and other colored stains contain pigmentation that affords some protection from the effects of sunlight and helps maintain a less weathered look for longer.

It's best to apply a stain about two to four weeks after the wood has been treated with a water-repellent preservative. However, some new stains also contain wood preservatives, so you can bypass the two-step process.

A problem with stains can be that their pigmentation comes off as weathering breaks it down. Choose a good-quality, oil-base, semitransparent stain.

If your deck has been stained previously, oxalic acid may affect the color of the stain. If the altered appearance doesn't suit, you can restain the deck. Restain as needed every two to four years, depending on the extent of exposure. □

Angled planters *create maximum planting area to soften bare façade. Stucco planter walls straddle big river rocks*

Tight space answers . . . concrete block planters below the street wall

NORMAN A. PLATE

Tall and narrow, Tom Schultheis's house in Long Beach, California, makes maximum use of its tight lot. But it also leaves little room for landscaping to soften the expanse of stucco wall.

The solution? He built stuccoed concrete-block planters angled upwards alongside the house. Three-foot walls at the sidewalk rise to 6-foot watertight walls against the house, allowing soil to be graded for maximum growing area.

Twelve tons of river rock were brought in to be incorporated into the landscaping. Some of the boulders were set in the planting beds; at places, planter walls were built around the stones.

Melaleuca and olive trees will fill rapidly to soften the entry. Fern asparagus serves as ground cover. Brick paving leads to the entry from the sidewalk, cutting through at an angle to accent the incline of the planters. □

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Low wall *in cantilevered extension allows dining room (left foreground) and living room (above) to share daylight and views. Built-in planter holds a large palm. Every second window opens. High fixtures provide nighttime spot lighting*

"It's like living in the trees"

They pushed out 4½ feet, walled and roofed with glass

Finding room for expansion on a narrow city lot resulted in the 4½-foot-deep extension pictured here. Where there had been a tiny bay on the front of the house, continuous windows and skylights now open up views of a neighboring park and bathe the living and dining rooms in daylight.

"It's like living in the trees," says owner Maureen Levitan.

The new addition lengthened the living room; the dining room wall was moved forward, allowing the kitchen behind it to be expanded.

The skylight and upper portion of the window wall are tempered glass sandwiched between Douglas fir 3 by 4's inside and 2 by 3's outside. Lag screws join outside and inside frames through metal flashing; silicone caulk seals all joints.

Four windows (two each in living and dining rooms) open for ventilation.

A copper-lined planter well, visible in both pictures above, separates living room from dining room in the new extension; a bottom drain hole and pipe carry excess water down to an outside planter.

Al Klyce of Mill Valley, California, designed the remodel for Maureen and Jack Levitan. □

DARROW M. WATT

Jutting out *over garage and entry, addition gains space for living, dining rooms on front, kitchen behind*

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Breezy opening in the adobe wall

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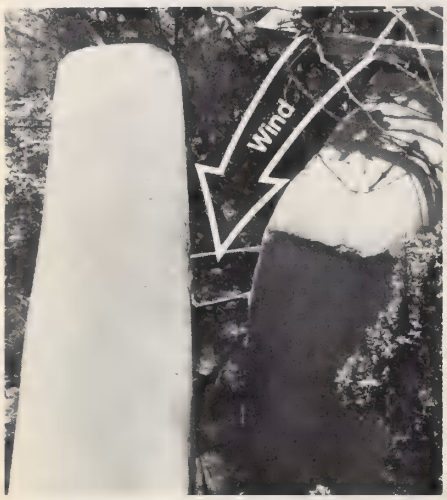
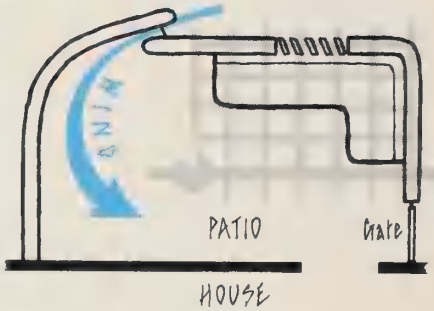
Protected patio *has grape arbor overhead, built-in banquette seating*



Juxtaposed sections *leave 6-inch slot to funnel in wind. Two steel rods brace walls*



High adobe walls *with louvered opening block strong winds, let breezes in*

Like an air vent in a car, the subtle opening in this adobe wall brings in summer breezes.

Supporting the arbor overhead, the wall is needed to block sometimes-gusty southwesterly winds. The extended fin captures only enough wind to keep air circulating in the tiled patio.

Nat Kaplan of Albuquerque designed the wall for owner David Gale. □

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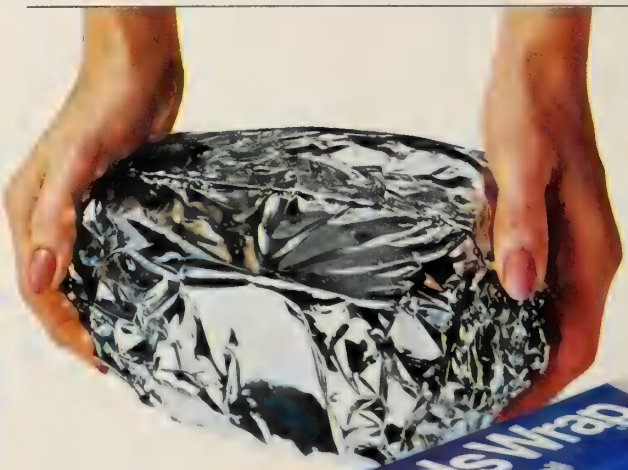

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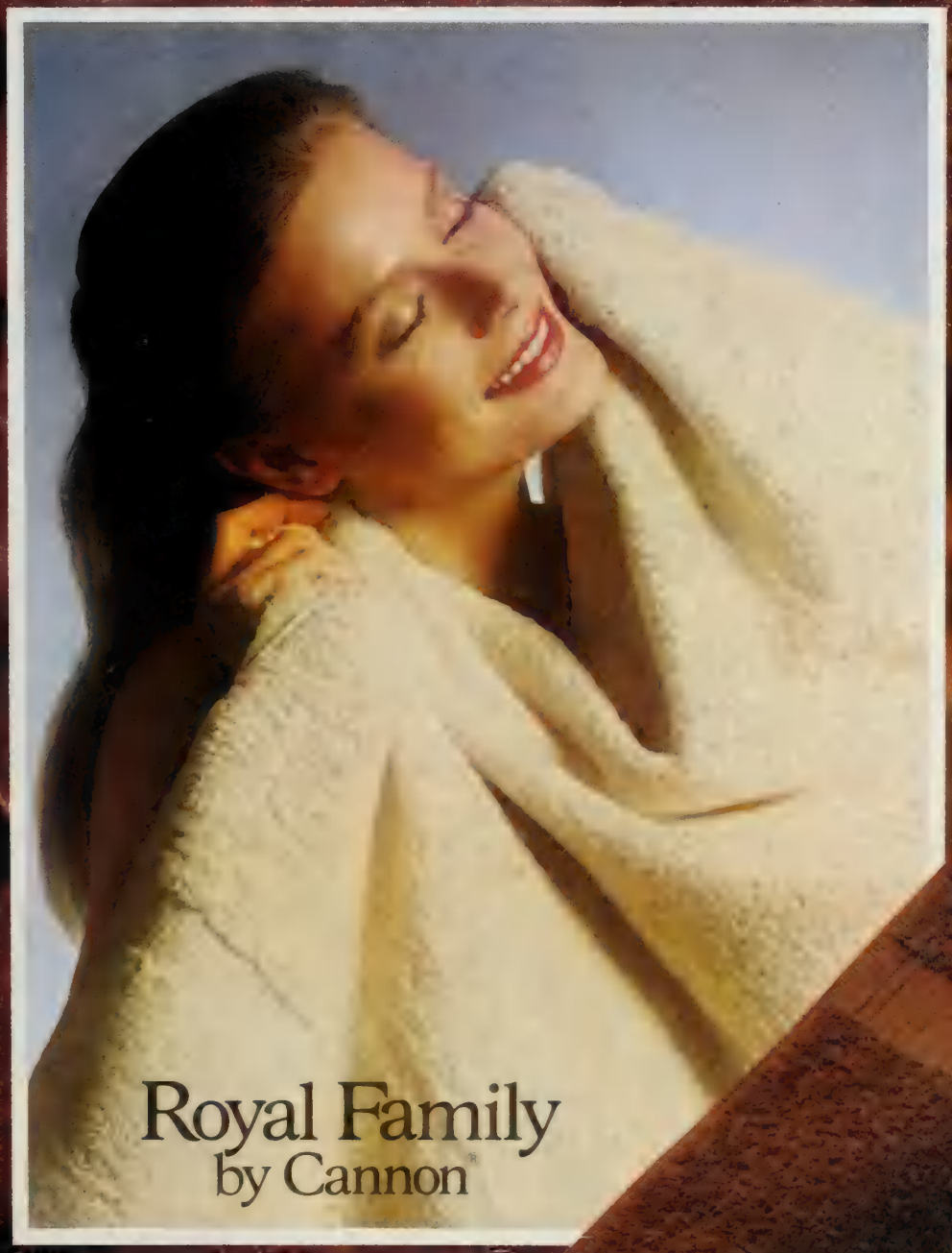

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NORMAN A. PLATE

Ornately framed *mirror slides along ceiling-mounted track for access to drugs, cosmetics*

Mirror marvel slides away

An outrageous picture frame inspired this bathroom medicine cabinet. Larry and G. G. Green of Mill Valley, California, found the frame at an import store, painted it white, added a mirror, and hung it, with tongue-in-cheek pomposity, directly over the pedestal sink. Mounted with hardware for a sliding door, it rolls aside to uncover four recessed shelves.

A sturdy aluminum T track and nylon ball-bearing wheels support the heavy mirror, letting it slide smoothly and quietly. Threaded rods screw into the sliding door carriers and are fastened to the picture frame with angle irons. □

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Key to this seesaw's success is its heaviness and smooth pivoting action. A 10-foot-long full-dimension cedar 2 by 12 timber, smoothed at both ends, serves as the teetering plane. Its balanced weight keeps the action slow and smooth.

The 2 by 12 rocks on a pivot bar made of ¾-inch galvanized pipe that turns in holes in the wooden uprights. Caps lock the pipe in position. Bolt clamps (the kind used to cinch down electrical cable; they're available at larger hardware stores and electric supply stores) secure the 2 by 12 to the pipe.

The base is made of 3 by 8's and a 3 by 6 nailed together in a 20-inch-high H. Masonry bolts anchor the H's base to the patio. (Or make a freestanding cross-shaped base.) □

Bolts come down *through clamps to side of pipe, not through it*

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For pool owners, save-energy ideas

Using a pool cover as described on page 72 can result in major savings of energy and pool maintenance costs. And other conservation measures—including some that require little or no initial investment—can result in additional fuel savings. Here are seven.

Pool operation and maintenance

Lower the water temperature by setting the pool's thermostat as low as is comfortable (about 78°). Higher temperatures waste energy: a rise from 78° to 82° can increase heating costs as much as 40 percent.

Turn off the heater's pilot light when you're away on vacation and when the pool isn't getting much use.

Conservation experts recommend that you *heat the pool with a cover in place and run the filter up to 5 hours between about 6* A.M. *and noon* (before summer's period of peak electrical demand—noon to 6 P.M.). If more filtering is needed during periods of heavy pool use, increase operating time in ½-hour increments toward earlier morning (5 or 5:30 A.M. instead of 6, for example) until the water is clear.

Keep the pool's gas heater in good working order. About once a year, have it checked for cracks and cleaned of any soot deposits to keep it burning efficiently. Backwash the filter as needed.

Some other measures

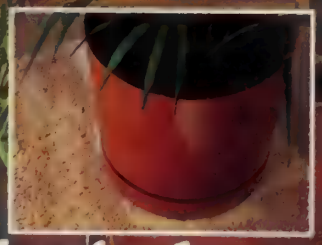
Reduce wind around the pool. Solid fencing helps divert wind from the water's surface; shrubs, trees, and cabañas also offer some protection—as long as they don't block too much sun from the pool.

Plaster the pool a dark color or black? This results in only minimal savings. Most sunlight (about 75 to 85 percent of what hits the water) is absorbed by the pool regardless of its color. A black pool will absorb only another 5 to 10 percent or so, which would be reflected off the bottom and sides of a white pool. If your pool needs repainting or replastering anyway, you might want to consider black.

Installing solar collectors requires the highest initial investment of any measure given here. To provide most of the pool's heat during summer, consider supplementing a pool cover with an active solar system. A regular heater can provide backup heating in spring and fall. ▫

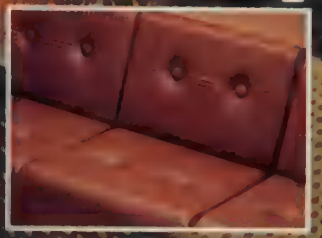
New Complete cleans and polishes...

wood tables



plastic planters

chrome lamps



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DAVID STUBBS

Adjustable louvers *control light entering solarium. When closed, their white-painted tops reflect up to 90 percent of the sun's energy*

Wooden jalousies overhead admit much, little, or no sun

The direct gain of solar heat from a south-facing solarium or greenhouse is welcome in cool weather but can be uncomfortable—and sometimes damaging—in warmer weather. The challenge is to control the sunlight. Most solutions—shadecloth, greenhouse paints, or shade panels—are fixed on the outside of the overhead glass and cannot be adjusted for variable light conditions.

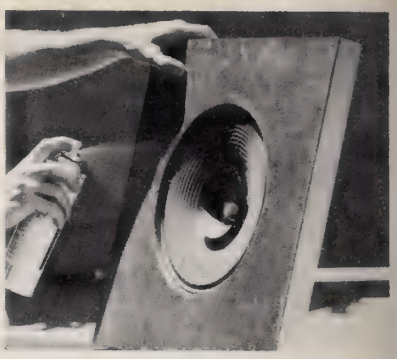
The photograph above shows a fine-tuning way to control sun. In his solarium addition, David Balogh of Soquel, California, uses eight sets of jalousie window tracks with wooden strips for louvers in place of glass. With this system, he can partly or completely close off the overhead light in the 16- by 20-foot room whenever he wants to.

The tracks, which cost about $28 per pair, attach to 4-by-6 beams. Each set holds 10 panels made from 3/16-inch paneling cut into 4- by 42-inch strips. Balogh painted the top of each panel white to reflect maximum sunlight through the overhead glass.

He can angle the louvers so they admit early light but block the sun at high noon. By opening some sets of panels more than others, he can even direct sunlight to certain areas or plants in the room.

Balogh combines this overhead shading with a very effective venting system. A ground-level vent and standard windows admit cool air, while three high vents can be opened to exhaust any heat trapped at the eaves. Or he can open a sliding glass door to let warm air enter the main house. □

The Changing Western Home®



Can you bring your music outdoors?

If it doesn't break any local noise-control ordinances you can, but there are several things to consider:

Almost all speaker cones are built for indoor use (even some that are put into "weatherproof" enclosures). "No speaker can take weathering for very long," one retailer warned. Sunlight and moisture can break down even some protected speakers extremely fast.

Most speakers designed specifically for outdoor use are for public address systems. "With the lower-priced models, all you're paying for is the enclosure," an electronics store manager told us. Still, these speakers can be a good bet if you're not terribly concerned about fidelity and you don't want to move speakers in and out. Prices range from $8 to $150. To keep outdoor speakers as protected as possible, tuck them up under the eaves, pointed toward the listening area.

It's less expensive to make low-cost indoor speakers weather-resistant. Mount them in a cabinet covered with waterproof paint, coating, or fabric. To waterproof speaker cones, spray them with silicone. Again, keep them out of direct weather.

BILL ROSS

Gate with a view for a dog

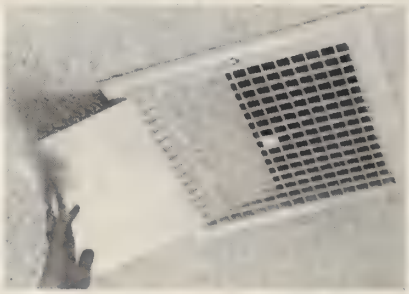
This dog's curiosity gets its due: his owner built a view gate.

Located at the bottom of side-yard steps, the redwood gate has a frame of paired 1 by 6's and center-crossbar 1 by 8's, cut with a saber saw to form two curved openings. Filling the upper one are ½-inch-square wrought-iron bars; the lower panel is of ½- by 4-inch tongue-and-groove redwood. Pieces of ½-inch-thick redwood are sandwiched between the frame pieces, which are secured with 2½-inch carriage bolts.

The gate was built by owner Douglas Fenwick of Pacific Palisades, California.

Help your swamp cooler do a better job

Air flow is all-important if you cool your house with an evaporative cooler (see the July *Sunset*, page 68).



One device shown here exhausts warm air through the ceiling. The other helps you direct the flow of cooled air to where you need it most.

An Up-dux is a ceiling grille attached to a square sleeve of galvanized steel, which you screw to a joist. Warm air goes up through it and out attic vents, lowering attic temperatures. This ceiling escape also reduces the amount of exhaust area that windows and doors need to supply, improving home security and decreasing access for dust and dirt. A steel panel shuts automatically in case of fire, and a slide-in panel (pictured at left) closes the opening in winter. The grilles cost $25 at well stocked home improvement centers. It's best to have one for each room.

An extractor is a set of small movable blades mounted in the duct just inside a register. You push in a handle to increase air flow through that register, pull the handle out to stop it. Place one in your main day-use area, one in the duct to sleeping quarters. Cost is about $10 each at some evaporative cooling supply shops (or have them custom-made at a sheet metal shop).

DON NORMARK

DAVID STUBBS

Doors and children . . . protected from each other

Children's breakneck exits and entrances wreak havoc on doors; if doors are glass, they can pose a danger to the children, as well.

A stainless steel door pull—the kind usually used in hospitals—protects a screen door during dashes like the one you see at left. It was installed as part of a major remodel by architect William P. Bruder in Doris and Michael Lawson's Phoenix house.

Above, a strip of oak flooring spanning a glass door in this Palo Alto, California, house serves the same purpose. Young hands go naturally to the rail to control the door. When the children are bigger, the board will be removed.

Postman-designed drop

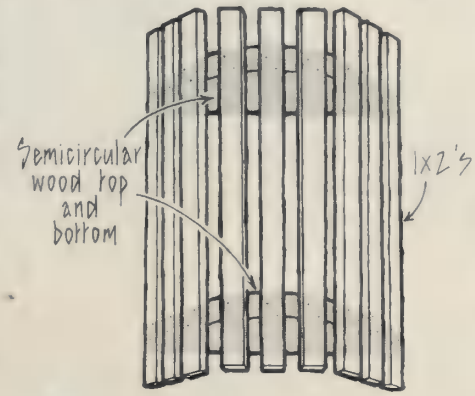
The mail drop below takes more than letters; it also holds packages. David Leatham of Seattle designed it with the help of his postman, who suggested the 4½-inch-deep by 17-inch-wide by 13-inch-high bin as the most useful size. The chute usually stays closed on the outside, open on the inside. Then it tips open to the outside to accept parcels, as shown in the upper photograph. There's no hinge; the unit rocks out on its bottom until the top catches on the sill.

LARRY BULLIS

An entry light? No, a meter disguise

The meter reader—and everyone else—had an easy time finding the electricity meter on this Longview, Washington, house; it was mounted on the wall beside the front entrance. To disguise it, a cover of 1 by 2's nailed to two pieces of 1-inch plywood (use any size scrap lumber) is attached to the wall with small metal braces. The cover is stained to match the cedar siding.

It looks like a porch light from the street, but there's enough room between the 1 by 2's for the meter reader to note the kilowatt-hours.



J. WORKMAN

A king-size sheet *rolls up around bamboo poles to travel outdoors. When you want to stop, you have an instant sunshade*

August good thinking... take your shade with you

CAROLYN CADDES

Wherever under the sun you go, you can quickly create a shady spot for a picnic or a nap with this instant canopy.

It's a large bedsheet supported by four 7-foot bamboo stakes (you can buy these at many nurseries for about $1.25 each). You'll also need four 3/8-inch-diameter steel rods, each 36 inches long (about $1.50 each at hardware stores); four large safety pins; and a 2-foot length of duct tape.

How to assemble. Use a bit of duct tape to attach a pin to one end of each bamboo stake. Pound steel rods into stakes to break through bamboo "knuckles" to a depth of about 18 inches; remove rods. Roll up rods and stakes in the sheet, and bring along a hammer or mallet.

At your picnic spot, spread sheet out on the ground so you can see where to hammer the steel rods into the ground (at the corners). At each corner, pound a rod about 18 inches (or half its length) into the ground, leaving about 18 inches above ground; set rods at a slightly outward angle. Now slide bamboo stakes over the rods.

Fold over each corner of the sheet, and attach diagonally opposed sheet corners to the safety pins at the top of the stakes (two people can do this better than one). The sheet will be fairly taut, and the supports will bow out a little.

Of course, you can raise a canopy just as well in your own back yard. □

DARROW M. WATT

Steel rods *are hammered down about 18 inches into the ground. Bamboo poles slip over rods*

Safety pins *join sheet corners to bamboo supports. Fasten pins to poles with duct tape*

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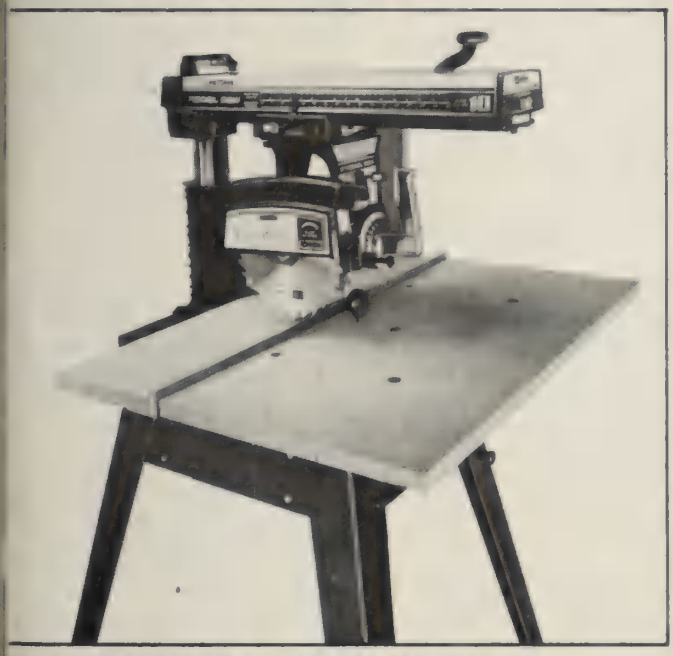

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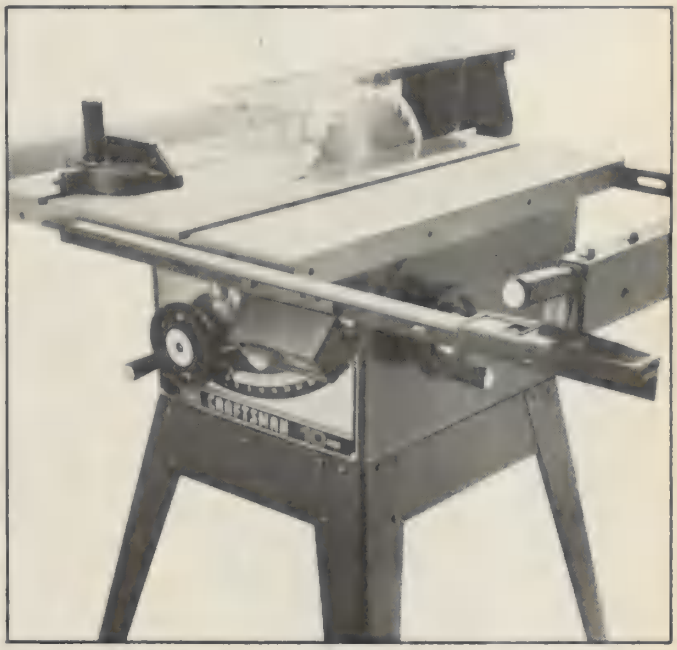

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$150 OFF Here's another super savings on Sears Cast Iron Top 10" Table Saw (#29815) that miters, bevels, rips, crosscuts and more. Outfit includes leg set, one extension and a permanently lubricated 100% ball bearing 1 HP motor that develops 2 HP. Plus, a manual reset overload-protector. And Sears exclusive Exact-I-Cut feature that lines up the cut ahead of the blade. Table Saw comes partially assembled. Save $150. Now $349.88

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Sunset's Kitchen Cabinet®

Doing away with hours of cooking seems to be a common goal during hot weather. But since families still need to eat, you look for recipes that won't turn the kitchen into a sauna.

For two quick supper entrées, consider chicken salad ramekins or tacos. Both the wilted cabbage and the berry dessert need chill time, so be sure to prepare them ahead. And if your garden is bulging with zucchini, the sweet-tart summer

Serve cool and refreshing glasses of this citrus punch on warm summer days

Sparkling Citrus Punch

For a special occasion, you might consider using chilled champagne in this punch instead of ginger ale.

- 1 basket medium-size strawberries
- 1 can (6 oz.) frozen lemonade concentrate, thawed
- 1 can (6 oz.) frozen limeade concentrate, thawed
- 1 can (6 oz.) frozen orange juice concentrate, thawed
- 1 bottle (28 oz.) club soda
- 1 bottle (28 oz.) ginger ale
- About 1 quart ice cubes
- Thin lime slices for garnish

Wash and hull the strawberries; cut any large berries in half or thirds. Arrange berries in a single layer in a baking pan. Freeze, uncovered, until solid; package in a plastic bag to store until serving time.

In a large bowl or pitcher, combine the undiluted lemonade, limeade, and orange juice; cover and chill until very cold.

Just before serving, add the club soda, ginger ale, and ice cubes; stir to blend. Float the lime slices on top. Either float the frozen strawberries in the punch and let them melt slowly or serve them in a bowl to drop into individual glasses. Makes 3 quarts.—*W. K., Palo Alto, Calif.*

Zucchini or crookneck squash, carrots, and peppers go into this zesty relish

Summer Squash Relish

This colorful relish is crisp and sweet; serve it with franks and burgers.

- 20 medium-size (about 5 lbs.) zucchini or crookneck squash
- 2 large onions
- 4 medium-size carrots
- 2 large red bell peppers, seeded
- Cold water
- 5 tablespoons salt
- 3 cups sugar
- 2½ cups white vinegar
- 3 teaspoons *each* ground nutmeg and turmeric
- 2 teaspoons celery seed
- 1 teaspoon *each* dry mustard and pepper

With a food chopper or food processor, finely chop the zucchini, onions, carrots, and peppers. Combine vegetables in a 6-quart kettle, cover with water, and stir in salt. Cover and chill at least 4 hours or overnight.

Drain vegetables, rinse, drain again. Add the sugar, vinegar, nutmeg, turmeric, celery seed, mustard, and pepper. Simmer, uncovered, for 40 minutes or until thick; stir often. Ladle into 7 hot pint canning jars to within ½ inch of rim. Wipe rims clean; top with scalded lids and bands. Process in boiling water bath for 15 minutes. Cool; test for a seal. Makes 7 pints.—*J. M., Woodland Hills, Calif.*

Leftover chicken is base for a quick supper dish in individual ramekins

Hot Chicken Salad Ramekins

Just mix and heat ramekins to serve.

- 4 cups diced cooked chicken
- 1 can (10½ oz.) condensed cream of chicken soup
- 3 green onions, thinly sliced
- 1 cup thinly sliced celery
- ½ cup chopped green pepper
- 1 package (10 oz.) thawed frozen peas
- 1½ tablespoons *each* lemon juice and Dijon mustard
- ½ cup *each* mayonnaise and chopped nuts
- 1 cup shredded Cheddar cheese
- 1 can (3 oz.) French-fried onions

Combine chicken, soup, onions, celery, pepper, and peas. Stir in lemon juice, mustard, mayonnaise, and nuts. Spoon mixture into 6 shallow ramekins (about 1 cup each). Heat as directed below. Serves 6.—*D. T., Friday Harbor, Wash.*

In a microwave oven, cover lightly with plastic wrap and heat 3 ramekins at a time on full power for 4 minutes or until hot. Top with cheese, heat 1 to 2 minutes longer, then sprinkle with the onions.

In a conventional oven, cover with foil and heat in a 375° oven for about 20 minutes or until hot. Top with cheese, heat 5 minutes longer, then sprinkle with the onions.

uash relish is an easy way to pre-
rve some of your crop.

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u'd like to share, send them to
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Warm weather ideas: summer squash relish, citrus punch, chicken ramekins

ilted Chinese Cabbage Salad

epare this unusual slaw several
urs ahead so that it will have time
wilt.

1 large head (3 lbs.) cabbage
6 green onions
1 package (3 oz.) Oriental noodle soup mix (any flavor)
4 cup sugar
2 cup salad oil
1 teaspoon sesame oil (optional)
6 tablespoons white wine vinegar
1 tablespoon soy sauce
2 teaspoon pepper
4 cup toasted sesame seeds

ith a sharp knife, finely shred the
bbage; you should have 3 quarts.
Cut the green onions (including some of the tops) into thin diagonal slices.

In a large salad bowl, combine the shredded cabbage and the green onions. Break the uncooked Oriental noodles (save the seasoning packet for other uses) into small pieces and mix into the cabbage.

For the dressing, stir together the sugar, salad oil, sesame oil (if used), vinegar, soy sauce, and pepper. Pour over cabbage mixture and toss well. Cover and chill 2 to 4 hours or until wilted. Stir before serving. Sprinkle with sesame seeds. Makes 8 to 10 servings.—*H. K., Portland.*

Crisp uncooked Oriental noodles make an interesting addition to this slaw

acos Pescado

ou can fry your own tortillas or
rchase crisp-fried tortilla shells.

2 tablespoons lemon juice
Water
1 package (1 lb.) frozen sole, perch, cod, or haddock
8 corn tortillas (or taco shells)
Salad oil
Tomato salsa (recipe follows)
About 4 cups shredded lettuce
About ½ cup sour cream

a frying pan, bring to boiling
mon juice and enough water to
ver fish (about 4 cups). Add fish (do
t thaw), cover, and simmer until
h flakes easily, about 22 minutes.
rain and keep warm.

Meanwhile, fry tortillas, one at a time, in ½ inch of hot salad oil over medium-high heat until soft (10 seconds). Fold each tortilla in half, hold slightly open with tongs, and continue to fry until crisp, 1 to 2 minutes. Drain on paper towels; keep warm.

To serve, spoon chunks of fish into tortillas, topping with salsa, lettuce, and sour cream as desired. Serves 4. —*M. S., China Lake, Calif.*

Tomato salsa. Chop 2 medium-size tomatoes and combine with 3 green onions (sliced), 1 to 2 tablespoons diced green chilies, and ¼ teaspoon ground cumin. Season with salt.

Spoon chunks of fish into taco shells, adding salsa, lettuce, and sour cream

erry Almond Refrigerator Squares

ou can use boysenberries, sliced
rawberries, or other fresh berries.

2 cups macaroon cooky crumbs
3 tablespoons melted butter or margarine
1 bag (10½ oz.) small marshmallows
½ cup milk
1 tablespoon lemon juice
6 cups fresh berries (see above)
1 large carton (8 oz.) frozen whipped topping, partially thawed
About ¼ cup sliced almonds, toasted

tir together the crumbs and melted
utter. Lightly press into the bottom
of a 9- by 13-inch baking pan. Bake in a 350° oven just until golden, about 12 to 15 minutes; let cool.

In the top of a double boiler, combine marshmallows and milk. Place over simmering water and cook, stirring, until marshmallows melt. Stir in lemon juice; remove from heat. Cool until mixture mounds when dropped from a spoon, about 10 minutes.

In a large bowl, fold marshmallow mixture into berries, then fold in whipped topping. Spoon over crust and sprinkle with almonds. Cover and chill until firm, about 4 hours. Serves 12.—*K. K., Moraga, Calif.* □

Cut this light and fluffy make-ahead berry dessert into squares to serve

Chefs of the West®

The Art of Cooking . . . by men . . . for men

Chef Waschke's harvest soup is corn, tomatoes, potatoes, much else

There's such promise in a spring seedling, such pride in tall summer corn and vines heavy with beans and tomatoes. A gardener among his plants thinks: "I did this. I must really be something."

Yet, in a world where corn and beans usually come in measured frozen quantities, and tomatoes are counted one by one into a supermarket bag, the comparatively vast production of a garden may get beyond you. A lot of good recipes come in handy even after you have supplied the neighbors and the boys down at the job.

Chef Marvin Waschke helps us dirt gardeners out with a soup. Now *Chef* Waschke is the real, authentic item: a farmer. He possesses his own cows, so even the fresh whole milk is a Waschke product. For suburbanites, we suggest adding some half-and-half to the mix, and for those who have a slightly different mix of plants out the back door, it won't hurt the soup to put in a few beans or a bit of summer squash. Herewith *Chef* Waschke's Tomato-Corn Soup.

Tomato-Corn Soup

- 3 tablespoons butter or margarine
- 1 medium-size onion, chopped
- 1 clove garlic, minced or pressed
- ½ cup thinly sliced celery
- 1 cup shredded carrot
- 4 large ears corn on the cob
- 2 small potatoes, diced
- 3 medium-size tomatoes, peeled and coarsely chopped
- 1 teaspoon *each* sugar and salt
- ¼ teaspoon pepper
- ½ teaspoon dry basil, or 1 teaspoon chopped fresh basil
- 3 cups water
- 3 teaspoons instant vegetable bouillon
- 1 cup half-and-half (light cream)
- Chopped parsley or thinly sliced green onion

Melt butter in a 5-quart kettle over medium heat; add onion, garlic, celery, and carrot and cook, stirring occasionally, for 20 minutes or until very soft.

Meanwhile, cut corn kernels off cobs; you should have 3 to 4 cups. Add potatoes, tomatoes, sugar, salt, pepper, basil, water, and instant bouillon to kettle. Simmer 35 to 40 minutes or until vegetables are fork tender. Add half-and-half and reheat. Garnish with parsley or green onion. Makes 2½ quarts.

Marvin G. Waschke
Bellingham, Wash.

What can you barbecue? Well, shish kebab is always festive, but the secret of good shish kebab is the marinade. *Chef* Kim Arnason gives us one that contains, of all things, nutmeg and cloves. It's well worth a try.

Kim's Shish Kebab

- 1 cup dry red wine
- 1 clove garlic, minced or pressed
- ⅓ cup salad oil
- ½ teaspoon dry mustard
- 1 teaspoon salt
- ¼ teaspoon pepper
- 1 small onion, finely chopped
- ¼ teaspoon *each* ground nutmeg and cloves
- 2 pounds lean boneless lamb, cut in 1½ inch cubes
- ¾ pound medium-size mushrooms
- 2 large green peppers

Combine wine, garlic, oil, mustard, salt, pepper, onion, nutmeg, and cloves and pour over lamb cubes. Cover and refrigerate 2 to 4 hours, or overnight.

To prepare skewers, cut off mushroom

Wish-Bone® Italian Dressing. Sassy. Tangy. It's got zing! The excitement of authentic Italian herbs and spices specially blended for fresh, irresistible Italian flavor.

RECIPE HINTS: *Cheesy Tomato Bake*—drizzle over thick tomato slices. Top with cheese and basil; bake. *Tangy Fish Bake*—brush over fish fillets; top with parmesan cheese and bake.

WISH-BONE ITALIAN DRESSING. IT'S GOT ZING!

The Thielke household blends a German heritage with a Japanese. The result: Pork and Cabbage Bake

stems and reserve for other uses. Seed and cut green pepper into 1½-inch squares. Using 10- to 12-inch skewers, alternate pieces of lamb, mushroom caps, and pepper squares. Reserve marinade for use as a baste.

To barbecue, arrange skewers on a lightly greased grill 4 to 6 inches above medium-glowing coals. Cook 15 to 20 minutes total, turning and basting with reserved marinade until evenly browned on all sides. Meat should be a bit pink in center when slashed with a knife. Makes 4 to 6 servings.

Tucson

Pork and cabbage may not seem especially summery, but even in summer one sometimes feels the need of something substantial for dinner, and since *Chef* Leo Thielke's mix is a one-pot meal, it won't take much time away from outdoor activity.

The Thielke household blends a German heritage (from *Chef* Thielke) with a Japanese (Mrs. Thielke), and you'll notice some of that blend in the ingredients in this sturdy entrée.

Pork and Cabbage Bake

- 6 lean loin or shoulder pork chops
- 1 small head cabbage, shredded
- 1 large onion, thinly sliced
- 1 tablespoon sugar
- 3 tablespoons lemon juice
- 1 tablespoon vinegar
- 4 tablespoons soy sauce
- ½ cup sake or dry white wine
- ¼ teaspoon coarsely ground pepper
- 1 bay leaf, crushed
- ¼ cup hot water
- 2 teaspoons cornstarch blended with 2 teaspoons water

In a 4- or 5-quart kettle over medium-high heat, brown the pork chops very well on both sides. Lift out and set aside. Discard drippings. Combine cabbage, onion, sugar, lemon juice, vinegar, soy, sake, pepper, and bay leaf; place in bottom of the kettle and arrange chops over the top. Pour hot water over the chops, cover, and bake in a 350° oven for 1½ hours, or until chops are very tender when pierced.

Lift the pork chops to a serving platter and keep warm. Stir the cornstarch mixture into vegetables and cook, over medium-high heat, stirring until the juices are thickened. To serve, spoon the vege-

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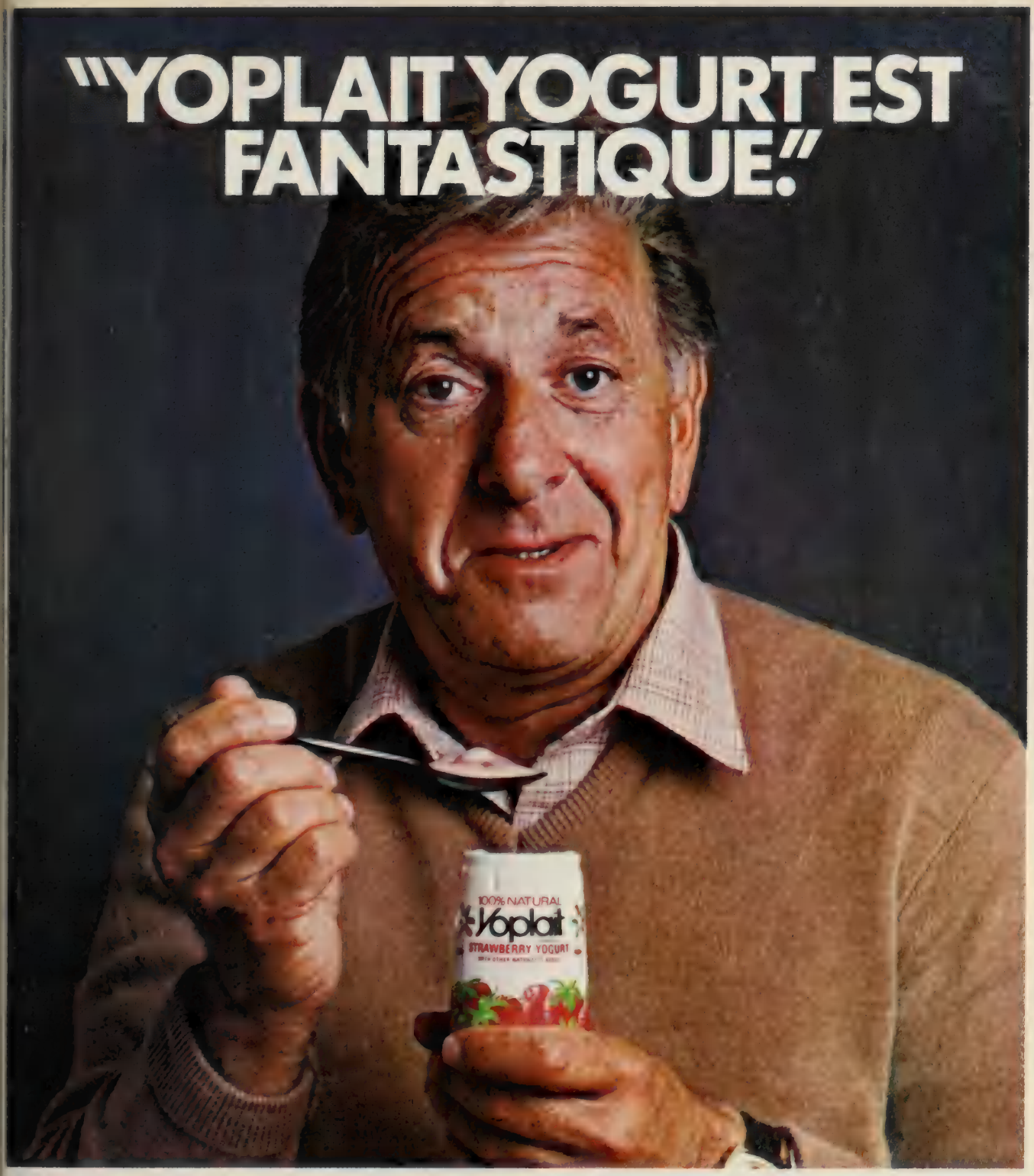

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table mixture evenly over the chops. Makes 6 servings.

Mountain View, Calif.

"The acid test of any vegetable was passed when the kids asked for seconds," boasts Noel Damon of his stir-fried squash and green peppers. It's a pretty dish—all green sprinkled with sesame seed—and the sesame oil adds a distinctive flavor for those who like it.

Green and Green

- 2 tablespoons salad oil
- 1 large green pepper, seeded and sliced in ¼-inch strips
- 8 large pattypan squash or 5 to 6 medium-size zucchini (about 2½ lbs. total), cut in ¼-inch slices
- 2 teaspoons sugar
- 1 teaspoon soy sauce
- ¼ cup regular-strength chicken broth
- ½ teaspoon sesame oil (optional)
- 2 tablespoons toasted sesame seed

Heat the oil in a wide frying pan or wok over high heat until very hot; add the green pepper and squash and cook, stirring, for 2 minutes. Add sugar, soy, and broth; cover and cook about 2 minutes more, or until vegetables are just tender when pierced. Add sesame oil, if used, and sesame seed. Serve immediately. Makes 6 to 8 servings.

Sunnyvale, Calif.

Sherbet comes from the Middle East, where Arabs and Persians mixed fruit juice with cool water for a refresher on a hot and dusty day. It progressed through various stages to our modern frozen dessert. John Grewelle has started with frozen nectar and gone back the other way to make his thick and icy drink with several fruits and juices.

Strawberry-Orange Smoothie

- 1 can (12 oz.) strawberry nectar
- 1½ cups orange juice
- ¾ cup milk
- 2 small oranges, peeled and sliced
- 2 medium-size bananas, sliced

Pour strawberry nectar into a shallow container and freeze until firm. Place ½ of the frozen nectar, ½ of the orange juice, ½ of the milk, 1 orange, and 1 banana in a blender; cover and whirl briefly until smooth, stopping blender if necessary to scrape ingredients off sides of container. Repeat with remaining ingredients. Combine mixtures and serve immediately. Makes about 6 cups.

Pleasant Hill, Calif.

Salad time and the dressing is easy!

Make your own fresh dressing... it's easy with Best Foods® Real Mayonnaise.

CREAMY ITALIAN

1 cup BEST FOODS Real Mayonnaise
1/2 small onion
2 Tbsp red wine vinegar
1 Tbsp sugar
3/4 tsp Italian seasoning
1/4 tsp salt
1/4 tsp garlic salt or powder
1/8 tsp pepper

Place all ingredients in blender container; cover. Blend on medium speed 15 seconds or until smooth. Cover; chill. Makes about 1 1/4 cups.

CREAMY FRENCH

1 cup BEST FOODS Real Mayonnaise
2 Tbsp sugar
2 Tbsp cider vinegar
1 Tbsp milk
1 tsp paprika
1/2 tsp dry mustard
1/4 tsp salt

Stir together all ingredients. Cover; chill. Makes about 1 1/4 cups.

RUSSIAN

1 cup BEST FOODS Real Mayonnaise
1/3 cup chili sauce or catchup
2 tsp lemon juice
1 1/2 tsp sugar

Stir together all ingredients. Cover; chill. Makes about 1 1/3 cups.

Bring out the Best Foods and bring out the BEST!

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DARROW M. WATT

Meat off the stick . . . inside the tortilla

Wrap warm flour tortillas around barbecued meat kebabs to make these sandwiches.

In our first recipe, the tortilla holds pork teriyaki sweetened with pineapple juice and honey. A crunchy slaw accented with crushed pineapple also goes in, with extra salad to eat on the side.

The second tortilla sandwich encloses chicken in a spicy yogurt marinade. Serve it with cool cucumbers and a minty yogurt sauce.

Slide *barbecued pork teriyaki onto lettuce-lined flour tortilla. Top with crisp pineapple slaw, roll up, and eat*

Teriyaki Pork Tortilla Sandwiches

Trim excess fat and remove bone from 2½ to 3 pounds pork shoulder. Cut meat in 1-inch cubes.

Drain juices from 1 can (8 oz.) crushed pineapple packed in juice. Mix the juice (reserve pineapple for the slaw; recipe follows) with ½ cup soy sauce; 1 clove garlic, pressed or minced; 1 tablespoon *each* honey and salad oil; and 2 tea-

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ORTEGA

GREEN CHILES

ɔons minced fresh ginger. Add meat bes and stir to coat well. Cover and ıll at least 4 hours or overnight; stir casionally.

ft meat from marinade and drain efly. Thread on skewers. Cook on a htly greased grill 4 to 6 inches from v-glowing coals. Cook, turning and sting often with reserved marinade, til meat is no longer pink when shed, about 15 minutes.

rap 8 to 10 flour tortillas in heavy-ty foil, sprinkling a few drops of water each tortilla. Place on grill over in-ect heat until warm, 10 to 15 minutes; n often. Or heat in a 350° oven for out 15 to 20 minutes.

serve, offer red leaf or butter lettuce ıves and the pineapple slaw (recipe fol-ws) with the meat and tortillas. To eat, ıce a lettuce leaf down the center of tilla, top it with meat from skewer, d a spoonful of pineapple slaw, and ll up. Makes about 8 servings.

neapple slaw. Combine 8 cups finely redded cabbage; ½ cup thinly sliced een onion; 2 large carrots, shredded; d drained fruit from 1 can (8 oz.) ushed pineapple. Stir together 1 cup ayonnaise, 1 tablespoon lemon juice, ½ teaspoons Dijon mustard, and ½ ıspoon *each* salt and ground coriander. st before serving, mix dressing and bbage mixture together.

ırried Chicken Tortilla Sandwiches

emove skin and bone from 2 or 3 icken breasts (2½ to 3 lbs. total). Cut eat in about 1-inch cubes.

ir together 1 cup unflavored yogurt; ½ teaspoons curry powder; ½ tea-oon *each* ground cumin, coriander, nger, and garlic salt; ¼ to ½ tea-oon cayenne; and 2 tablespoons lemon ice. Add chicken and stir to coat. over and chill at least 4 hours or over-ght, stirring occasionally.

nread meat on skewers. Cook on a eased grill 4 to 6 inches over a solid d of low-glowing coals until meat is longer pink in thickest part, 12 to 15 inutes; turn to brown all sides.

lso wrap 8 to 10 flour tortillas in heavy-ıty foil, sprinkling a few drops of water ı each tortilla. Heat on grill over indi-ct heat until warm, 10 to 15 minutes; rn often. Or heat in a 350° oven 15 to) minutes.

ir together 1 cup unflavored yogurt, 2 blespoons finely chopped fresh mint, ıd ½ teaspoon garlic salt. Also cut 1 nall cucumber in half lengthwise, then inly slice.

erve chicken skewers and tortillas with ıe yogurt sauce, cucumber, and 8 to 10 omaine spears. To eat, place a romaine ear down center of tortilla and top ith chicken, cucumber, and yogurt ıuce; roll up. Makes about 8 servings. □

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SUNOSF

DARROW M. WATT

Turkey parts are convenient and ec nomical for midsummer barbecues. No as readily available as whole birds most Western markets, parts take le time to cook and help you avoid u wanted leftovers.

Choose by the occasion: drumsticks wings are fine for a small, informal mea but for a sit-down dinner you mig want to barbecue stuffed turkey thig or grill cashew-buttered breast steaks.

Curried Turkey Drumsticks

In a small bowl, combine ¼ cup so butter or margarine, 4 teaspoons cur powder, ¼ teaspoon *each* ground ging and ground cloves, and dash peppe Rinse and pat dry 4 large turkey drun sticks (about 1¼ lbs. *each*). Carefull peel back skin on each and spread mea under skin evenly with the curry-butte Pull skin back into place and secure wit small metal skewers.

To barbecue, melt about ¼ cup butt or margarine. Arrange drumsticks on well-greased grill 4 to 6 inches above solid bed of medium-hot glowing coal Cover barbecue (with lid or a tent c heavy foil) and cook, basting frequentl with butter and turning as needed t brown evenly, until meat near bone no longer pink when slashed, 45 to 6 minutes total.

Meanwhile, stir together ½ cup chunk style peanut butter, ½ cup apple juic and 1 teaspoon crushed red pepper. Pas at the table to spoon over individua servings. Serves 4.

Glazed Turkey Wings

Stir together 1 cup orange juice; 2 table spoons *each* instant minced onion an

Turkey drumsticks, *preseasoned with curry and spices, cook on a covered grill. Uncover and baste frequently with butter for crispy, sizzling brown skin*

Answer anyone's prejudices: drumsticks, wings, second joints, steaks

On the barbecue, turkey parts are easy, economical

lad oil; 2 teaspoons dry basil; and ¼ aspoon *each* marjoram and oregano ıves, ground ginger, and pepper.

nse and pat dry 4 large turkey wings to 1¼ lbs. *each*). Cut off wing tips ıve for stock, if desired). Arrange ngs in a shallow baking dish. Pour er orange juice mixture, cover, and frigerate 24 hours.

› barbecue, ignite about 50 long-burn-g briquets; when they are covered with ay ash, arrange them at each side of e fire grate and position cooking grill to 6 inches above. Lift wings from arinade and set in a large foil pan. eat marinade to boiling, pour it over ngs, and cover pan with foil. Place pan center of grill, close barbecue, adjust ampers, and cook 50 to 60 minutes or ntil meat is fork-tender. Add briquets, needed, to maintain temperature.

ft off pan and grill, spread out coals, en replace grill. Remove wings from ın and arrange on grill; cook, basting equently with 3 to 4 tablespoons elted apricot jam, 10 to 15 minutes or ntil well glazed on all sides. Serves 4.

rilled Turkey Steaks with ashew Butter

utting across grain, slice 2½- to 3-ound boned and skinned half turkey east into steaks about ⅜ inch thick. ir together ⅔ cup dry sherry, 2 tea-oons chicken stock base, and ¼ tea-oon dry rosemary. Place steaks in a allow baking dish; pour over sherry ixture, cover, and chill for 24 hours.

o barbecue, melt ¼ cup butter or mar-arine in a small pan for basting. Melt ı additional ⅓ cup butter or margarine in another small pan and add 2 teaspoons lemon juice and ½ cup coarsely chopped salted cashews; set at side of grill to keep warm.

Lift steaks from marinade, drain briefly, and arrange on a well-greased grill 4 to 6 inches above a solid bed of medium-hot glowing coals. Cook, turning as needed to cook evenly and basting with the plain melted butter until meat is opaque throughout when slashed—about 8 minutes in all. Arrange steaks in a serving dish. Pour over the cashew butter and garnish with parsley and lemon wedges. Makes about 8 servings.

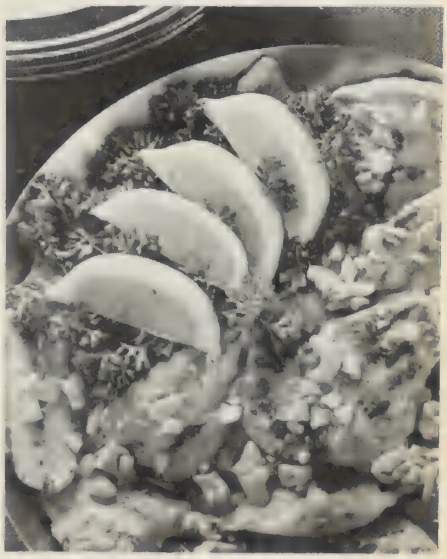
Stuffed Turkey Thighs

For the stuffing, combine 2 cups coarsely crushed packaged stuffing mix, ⅓ cup finely chopped celery, 3 tablespoons *each* chopped parsley and thinly sliced green onion, 4 tablespoons melted butter or margarine, 1 teaspoon chicken stock base, ½ teaspoon poultry seasoning, and ½ cup hot water.

Rinse and pat dry 2 large turkey thighs (1 to 1½ lbs. *each*). Place each thigh skin-side down and find the thick bone with your fingers. Run a sharp knife along the bone to cut meat free; lift bone out with your other hand as you cut. Place 3 to 4 tablespoons stuffing in center, where bone was removed. Bring meat up over stuffing and secure skin with metal skewers along 2 sides. If possible, tuck more stuffing into open end, then secure skin across it with another skewer to completely enclose meat and stuffing as a neat bundle. Wrap remaining stuffing in a double thickness of heavy foil.

To barbecue, ignite about 50 long-burning briquets. When coals are covered with gray ash, arrange them on each side of the fire grate. Place a drip pan in the center. Position cooking grill 4 to 6 inches above and arrange stuffed thighs and foil packet of stuffing over drip pan. Close barbecue, adjust dampers, and cook 45 to 50 minutes, or until a meat thermometer inserted into thighs registers 185°. Add more briquets, if needed, to maintain temperature.

Meanwhile, melt 1 can (8 oz.) jellied cranberry sauce. Place stuffing in a serving bowl. Remove skewers; cut stuffed thighs crosswise into thick slices. Pass cranberry sauce at table to spoon over servings. Makes 4 to 6 servings. □



Breast steaks *flavored with sherry and rosemary grill quickly. Spoon cashew butter over meat and add lemon for serving*

Wings *cook first in marinade in a foil pan, then get glazed and browned on the grill*

Boned thigh *makes a neat bundle for stuffing. Place thigh skin-side down; run a knife along bone to free flesh, lifting bone with your hand as you cut. Spoon stuffing down center, pull skin together, and skewer shut*

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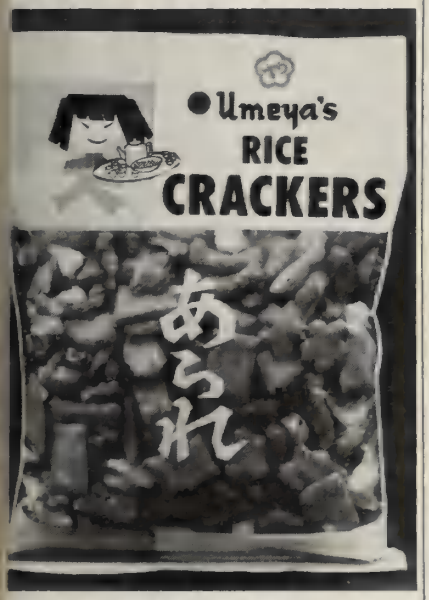

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DARROW M. WATT

Summertime treat *is cool pineapple sherbet drizzled with orange juice and a splash of white wine*

Summer theme with variations

With a dessert recipe so simple it can easily be memorized, you can produce delightful variations all summer long.

Without any advance preparation, you can create one of these sherbet desserts in minutes. Elegant presentation in stemmed dessert glasses or goblets will make it even more appealing.

You use plump scoops of a commercial fruit sherbet topped with a squeeze of citrus juice and a generous splash of dry white or red wine. Then each glass is garnished with a piece of fresh fruit.

Sherbet Splendor

Generously fill a dessert glass with a fruit sherbet (1 large scoop or 2 to 3 small ones). Spoon over it 1 tablespoon citrus juice and 2 tablespoons of a dry white or red wine. Garnish with fresh fruit. Makes 1 serving.—*W. F., Seattle.*

Possibilities for flavor combinations are almost endless, but we've chosen five that our taste panel particularly enjoyed:

Pineapple sherbet with orange juice, a Riesling wine, and an orange slice.

Lime sherbet with lemon juice, champagne, and a lemon wedge.

Raspberry sherbet with lime juice, Gamay Beaujolais, and a few fresh raspberries.

Lemon sherbet with lime juice, a dry white wine, and lime wedges.

Cranberry sherbet with lemon juice, a dry red wine, and an orange wedge. □

Pesto the pungent

Making the zesty sauce . . . you just whirl together fresh basil, Parmesan cheese, olive oil

Its peppery-rich scent unmistakable, basil grows prolifically in August gardens and this month is sold fresh in many markets. To take full advantage of the fresh herb's flavor, make it into pesto, the zesty Italian cooking and seasoning sauce.

It's easy. You simply whirl together tender basil leaves, fresh Parmesan cheese, and olive oil to form a thick, green paste.

Our serving suggestions will help you discover this sauce's marvelous versatility. Use it to flavor vinaigrette dressing or spaghetti sauce; stir it into soups; blend it with butter to melt over meats or vegetables; or try it in our colorful shrimp-and-vegetable sauté. You can also make pesto mayonnaise, which in turn can become a vegetable dip or creamy salad dressing.

Pesto will keep about one week in the refrigerator. Just give it a stir before you use it, since the surface will darken when exposed to air. Or freeze the sauce in small premeasured batches; a clean, dry ice-cube tray makes a handy container. Once frozen, store pesto cubes in a plastic bag or airtight container.

When you add fresh or frozen pesto to soups, sauces, or other dishes that require cooking, stir it in during the last few minutes (no need to thaw frozen cubes). Then heat gently, just until the pesto is thoroughly blended in. This preserves the pesto's flavor and avoids overheating the Parmesan cheese.

Fragrant, *bright-green basil, garlic, and fresh Parmesan cheese give pungent flavor to Italy's classic pesto sauce*

DAVID STUBBS

Pesto Sauce

- 2 cups packed basil leaves
- 1 cup freshly grated Parmesan cheese
- ½ teaspoon salt
- 2 large cloves garlic, peeled
- ½ cup olive oil

In a blender or food processor, combine basil, Parmesan cheese, salt, and garlic;

Freeze pesto *in small, premeasured batches, to be stored in plastic bag. Add cubes—frozen or thawed—to season other foods*

DARROW M. WATT

vhirl at high speed until smooth. With notor running, gradually pour in oil and vhirl until well mixed. Cover and refrigrate up to one week. Or freeze as diected at left for longer storage. Makes ıbout 1⅓ cups.

Pesto-vinaigrette dressing. Combine 6 ablespoons pesto with ⅓ cup red wine inegar and ⅔ cup olive oil or salad oil. Add 1 clove garlic (minced or pressed), f desired. Shake to blend.

Use mixture to dress a mixed green alad or drizzle over sliced tomatoes; or ry it as a marinade for small whole nushrooms or lightly cooked vegetables uch as green beans or broccoli. Makes ıbout 1⅓ cups.

Soup with pesto. Prepare your favorite recipe for vegetable, minestrone, or tonato soup (or heat canned soup). During he last 5 minutes of cooking, add about l tablespoon pesto sauce for each cup of soup. Or pass the sauce at the table to spoon into individual bowls of soup.

Pesto butter. Combine 4 tablespoons pesto sauce with ½ cup soft butter or nargarine; mix well. Melt over the top of hot, steamed vegetables, soft-cooked eggs, or broiled or barbecued meats and fish. Or stir it into sautéed mushrooms, or spread on slices of hot bread or toast. Makes ⅔ cup.

Pesto-butter dip. Stir together ½ cup melted butter, 4 tablespoons pesto sauce, and ½ teaspoon lemon juice. Use as a dipping sauce for hot, cooked artichokes or cooked shellfish, or drizzle over hot corn on the cob. Makes about ⅔ cup.

Pesto-flavored spaghetti sauce. Heat a 16-ounce jar of prepared spaghetti sauce, or prepare about 2 cups of your own favorite recipe for a tomato-base sauce. During the last 5 minutes of cooking, stir in ⅓ to ½ cup pesto sauce.

Pour this sauce over hot, cooked spaghetti, then top with chopped parsley and chopped pine nuts, if desired. Or spoon the sauce over your favorite ravioli, then sprinkle with additional grated Parmesan cheese. Or try it as a topping on omelets or vegetable frittatas. Makes about 2⅓ cups.

Shrimp-and-vegetable sauté. Diagonally slice 2 medium-size yellow crookneck squash and 2 medium-size zucchini. Melt 3 tablespoons butter or margarine in a large frying pan over medium-high heat. Add squash to the pan and cook, stirring, until tender-crisp, about 5 to 7 minutes. Add 1 small onion (sliced) and 12 medium-size uncooked, peeled shrimp. Cook, stirring, an additional 3 to 4 minutes or until shrimp turns pink.

Remove from heat; carefully stir in 3 tablespoons pesto and about 8 cherry tomatoes, halved; mix well. Makes 4 servings.

Pesto Mayonnaise

In a blender or food processor, combine ⅓ cup pesto sauce and ¼ cup olive oil; whirl at high speed until smooth. Add 1 egg, 2 tablespoons lemon juice, and 1 clove garlic (if desired); whirl until well blended. At high speed (or with processor motor running), slowly pour in ½ cup melted butter and ¾ cup salad oil. Add salt to taste and 1 teaspoon lemon juice, if desired. If made ahead, cover and chill. Stir to thin before serving. Makes about 2 cups.

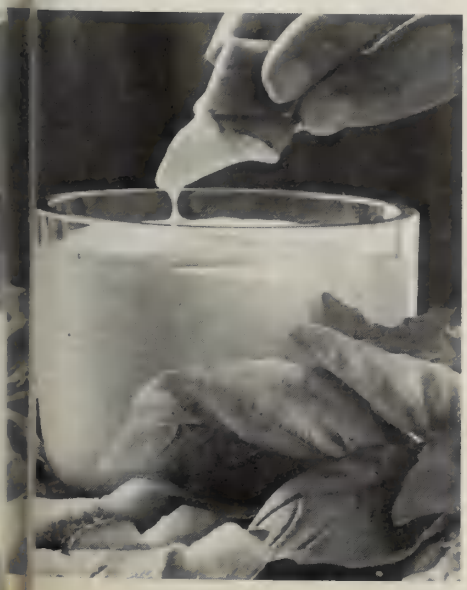
Prosciutto-and-melon platter. Prepare pesto mayonnaise and spoon into a 3-cup bowl. You'll also need 1 large honeydew melon, peeled and quartered, and about ¼ pound prosciutto, thinly sliced (or use 4 ounces thinly sliced boiled ham). Slice each melon quarter lengthwise into 4 crescents, then cut each crescent crosswise into 3 equal pieces.

Cut each prosciutto slice lengthwise into 3 equal strips, then halve each strip crosswise (or cut ham slices into ½-inch strips). Wrap a strip around a melon wedge; it will adhere by itself. Arrange on a serving plate surrounding the pesto mayonnaise. Garnish with fresh basil, if desired. Makes about 48 hors d'oeuvres.

Pesto vegetable dip. Stir together 1 cup pesto mayonnaise and ¼ cup chopped parsley. Top with ¼ cup chopped pine nuts or almonds. Pair this garlicky dip with fingers of ham and cheese or assorted raw vegetables. Makes 1¼ cups.

Creamy pesto dressing. Stir together 1 cup pesto mayonnaise and 1 cup (½ pt.) sour cream or unflavored yogurt. Add 1 tablespoon lemon juice, ⅓ cup chopped parsley, and salt to taste. Try as a salad dressing for sliced tomatoes, mixed greens, or chicken or egg salad. Or serve it as a sauce for cold, poached fish. Makes about 2 cups. □

Decorative sprigs *of fresh basil garnish pesto mayonnaise. Into it dip ham-wrapped wedges of melon*



One little corner of California is ideal for Johannisberg Riesling.

This elegant grape loves a cool climate and a long growing season. And The Monterey Vineyard® is located in the coolest wine growing region in the state. As a result, our Johannisberg Riesling grapes ripen in late October or early November —a full month later than virtually anyplace else in California.

More complex

Very slow ripening results in the incredibly deep and intricate flavors that distinguish our Johannisberg Riesling from those made in other parts of California.

Pineapples and peaches

Even a commonplace Johannisberg Riesling can be a fragrant wine, but in our cool climate, the grapes develop an incredibly beautiful fragrance reminiscent of fresh peaches and pineapples.

Notice its "legs"

Swirl the wine and watch its "legs"—the graceful patterns of liquid that trickle slowly down the inside of your glass. They tell you this is an unusually big, rich wine even before you taste it.

The great white wine area

A Johannisberg Riesling with this richness could only come from The Monterey Vineyard. And for good reasons. We are located in California's great white wine region. We have a vast understanding of the unique viticultural area. And in Dr. Richard Peterson we have one of the foremost winemakers in the world. More and more, wine lovers are discovering that The Monterey Vineyard produces some of the most extraordinary white wines from California today.

It only happens in Monterey

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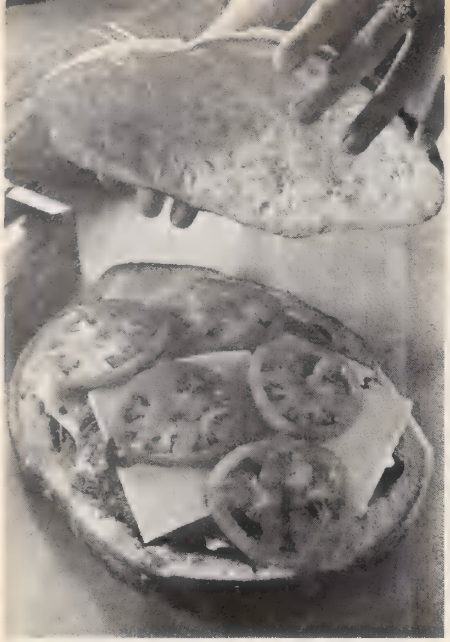
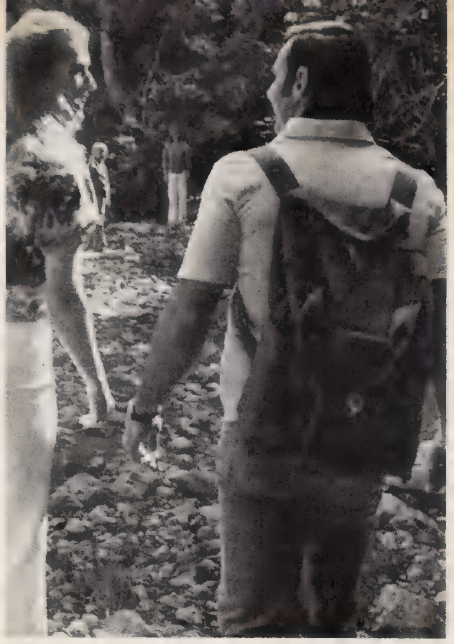




Sit on the supper? *For this picnic, you hollow out a big round of French bread, fill it with hearty sandwich fixings, then compress the loaf—by the method of your choice!—so you can cut neat wedges*

DARROW M. WATT

AUGUST MENUS

Hikers' lunch is a sandwich-in-a-loaf, patio dinner is fish in packets, supper is tuna baked in pear halves

Climbing temperatures and lagging appetites make August a good month for simple meals that can be quickly prepared and enjoyed outdoors.

Our first menu, perfect for a summer hike or picnic, is a portable sandwich to feed a group: it packs itself in a hollowed-out French loaf until you're ready to cut it for serving.

Our next easy-on-the-cook idea is a fish barbecue. You marinate fish steaks in a tangy soy-and-taco sauce, then wrap them in foil to steam over hot coals. Butter-basted papaya halves and corn on the cob go on the grill to round out this colorful dinner for four to six people.

The third menu suggests an unlikely sounding proposition: cheesy tuna-stuffed pears. Try them, and you'll discover a tasty new way to enjoy August's bountiful Bartlett crop. Fluffy cinnamon biscuits complement this entrée.

Sandwich-in-a-loaf

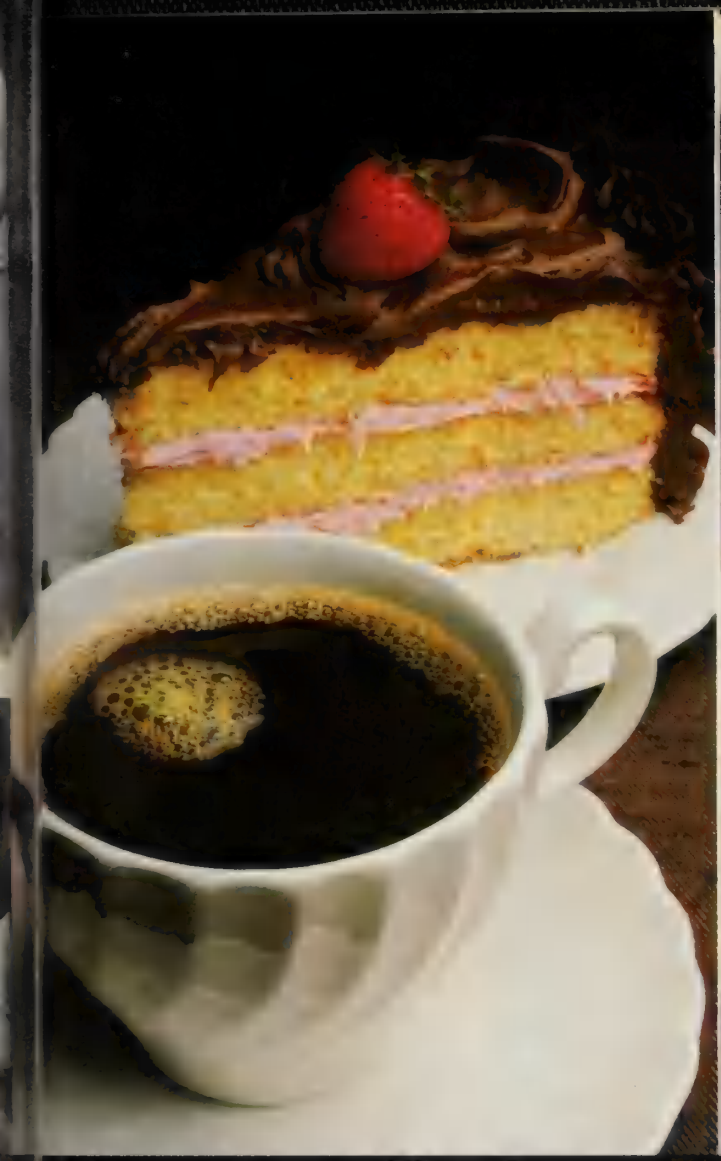
Make the sandwich early in the day, then transport it in a knapsack or ice chest to your picnic site. Or enjoy it at home as an easy supper.

Sandwich-in-a-Loaf
Fresh Fruit
Bar Cookies or Brownies

Assemble the sandwich up to 8 hours before eating: use any combination of your favorite sliced luncheon meats and cheeses. If you're eating away from home, take along fruit that will pack and travel easily, such as oranges or apples.

Sandwich-in-a-Loaf

Cut 1 round loaf (1½ lbs.) French bread in half horizontally. Hollow out the soft



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CREAMY BACON
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bread from the top and bottom halves, leaving a shell about ½ to ¾ inch thick. (Reserve soft bread for another use.)

In a small bowl, combine ¼ cup olive oil with 2 cloves garlic, minced or pressed. Brush the cut surfaces of the bread shells with the oil. You can spread the shells with ⅓ cup mayonnaise, if desired.

For the sandwich filling, you'll need 3 large tomatoes, sliced; about ½ pound assorted sliced luncheon meats; 1 package (3 oz.) sliced pepperoni or salami; and ¼ pound assorted sliced cheeses. Also have ready 1 jar (6 oz.) marinated artichoke hearts, drained; 1 can (2¼ oz.) sliced ripe olives, drained; 2 to 3 large dill pickles, sliced lengthwise; 1 mild red or white onion, sliced; and 1 can (2 oz.) anchovy fillets, drained (optional).

Layer ⅓ of the tomato slices on the bottom bread crust, then top with alternate layers of meats, pepperoni, cheeses, ½ of the remaining tomatoes, artichoke hearts, olives, pickles, onion, and anchovies (if used). Top with remaining tomatoes and place top crust on filling, pressing down firmly. Seal sandwich tightly in plastic wrap. If made ahead, refrigerate.

Just before serving, place wrapped sandwich on a flat surface and press down firmly on top to flatten it—or just let a giggly young hiker sit down on it, as we did! Unwrap the sandwich and cut it into wedges. Makes 8 servings.—*P. A., Santa Ana, Calif.*

Barbecued fish dinner

All the cooking for this casual patio menu is done outdoors over the coals. The zesty fish marinade is particularly flavorful if you select fish with medium-to-high fat content, such as swordfish, mackerel, trout, or albacore.

Tangy Fish Packets
Corn on the Cob **Grilled Papaya Halves**
Mixed Green Salad
Flour Tortillas (optional)
Sangria or Iced Tea

Marinate your choice of fish early in the day. About 50 minutes before dinner, ignite enough charcoal to make a solid bed of coals. Wrap the fish in foil; if desired, pull back husks from the corn ear, remove silk, and replace husks.

When charcoal is covered with gray ash, place unhusked corn directly on the grill about 4 to 6 inches above glowing coals to cook for a total of about 20 minutes; turn occasionally. Add the fish packets about 10 to 15 minutes before serving. Place papaya on the grill during the last 5 minutes.

Tangy Fish Packets

Choose 2½ to 3 pounds firm-fleshed steaks, at least ¾ inch thick; or use medium-size whole, cleaned trout. Wipe

DARROW M. WATT

nseal foil packets *to test flakiness f lemony, marinated fish; it's grilled ith papaya halves and corn on the cob*

the fish clean with a damp cloth.

Combine 1 cup salad oil, 6 tablespoons soy sauce, ½ teaspoon garlic powder, 1 teaspoon prepared taco sauce, 2 tablespoons lemon juice, and ½ teaspoon pepper. Place fish in a large dish; pour over marinade. Cover and refrigerate 5 to 6 hours, turning occasionally.

To cook fish, have ready large pieces of foil (one piece for every two steaks or one trout); foil pieces should be big enough to completely enclose fish. You'll also need about 2 lemons (sliced) and 1 large onion (sliced).

Remove fish from marinade and on each piece of foil place 2 steaks side by side (or 1 trout). Top with lemon and onion slices and 2 or 3 tablespoons of the marinade. Crimp the edges of the foil together to seal along top and ends.

Using a wide spatula, transfer foil packets to hot grill, setting them over the center of the coals. Allow about 10 minutes for each inch of thickness of the fish. Fish is cooked if it flakes readily when probed with a fork. Makes 4 to 6 servings.—*B. P., Chino, Calif.*

Grilled Papaya Halves

Cut 2 or 3 papayas in half lengthwise and remove seeds. Place papaya, skin side down, around the edge of the hot grill. Brush cut surfaces with ¼ cup melted butter or margarine mixed with 2 tablespoons lime juice. Remove papaya when warm, about 5 minutes.

Tuna and pear supper

Most of this menu can be prepared ahead, making light-hearted summer

"Bake the recipe that won $40,000!"

This Italian Zucchini Crescent Pie won America's Bake-Off® Contest and t'll win with your family, too.

Mrs. Max Caplan of Tamarac, Florida, won the Grand Prize of $40,000 in the 1980 America's Bake-Off® Contest with this delightfully mellow pie made of ight, flaky Pillsbury Crescent Rolls and fresh ucchini. It bakes in just twenty minutes! Try it—and nake summertime menu magic for your family.

ITALIAN ZUCCHINI CRESCENT PIE

Cook and stir 4 c. thinly sliced zucchini and 1 c. chopped onion in ¼ to ½ c. margarine for 10 min. Stir in ½ c. chopped parsley or 2 T. parsley flakes, ½ tsp. salt, ½ tsp. pepper, ¼ tsp. garlic powder, ¼ tsp. basil, ¼ tsp. oregano leaves. Combine 2 beaten eggs and 8 oz. (2 c.) shredded Kraft Natural Mozzarella Cheese or shredded CASINO Brand Natural Muenster Cheese. Stir in zucchini mixture.

Separate 8-oz. can Pillsbury Refrigerated Quick Crescent Dinner Rolls into 8 triangles. Place in ungreased 10" pie pan; press over bottom and up sides to form crust. Spread crust with 2 tsp. mustard. Pour vegetable mixture into crust.

Bake in preheated 375°F. oven for 18-20 min. or until center is set. (Cover crust with foil during last 10 min. of baking.)

Let stand 10 min. before serving. 6 servings

TIP: For 12x8" baking dish, separate dough into 2 long rectangles, press over bottom and 1" up sides to form crust.

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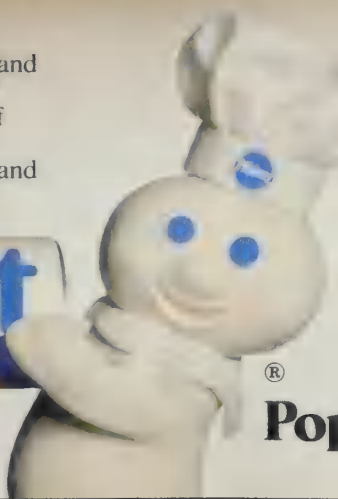

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"The Shaker Top perfectly blends the delicious flavor as you shake it on."

entertaining easy. If you own a microwave oven, you might bake the pears in it to reduce kitchen heat.

Tuna-stuffed Pears
Cinnamon-spiced Muffins
Fruit Sherbet

You can prepare these easily assembled muffins early in the day or bake them ahead and freeze them. The tuna salad filling can also be made early, then refrigerated until pears are baked.

Tuna-stuffed Bartlett Pears

- 1 can (6½ oz.) chunk-style tuna, drained
- ⅓ cup *each* chopped celery and red or green bell pepper
- 2 tablespoons *each* sliced green onions and chopped ripe olives
- ¾ cup shredded sharp Cheddar cheese
- ¼ cup mayonnaise
- 1 tablespoon lemon juice
- ¼ teaspoon *each* salt and dry mustard
- 2 dashes liquid hot pepper seasoning
- 4 Bartlett pears, peeled, halved, and cored
- Oil and vinegar French dressing
- Cherry tomatoes
- Parsley

Flake tuna and combine it with celery, pepper, green onion, olives, and ½ of the Cheddar cheese. Stir in mayonnaise, lemon juice, salt, mustard, and liquid hot pepper seasoning, blending them together thoroughly. If made ahead, cover and refrigerate.

Brush pear halves with French dressing; place 2 halves, cut side up, in each of 4 individual baking dishes or ramekins. Cover dishes with foil and bake in a 375° oven for about 20 minutes. (Or cover with plastic wrap and cook in the microwave oven at full power for 5 minutes or until pears are tender when pierced with a fork.)

Top each serving evenly with tuna mixture and the remaining cheese. Bake in a 400° oven for 10 minutes or until heated thoroughly. (Or cook in the microwave oven for 1 minute at full power.) Garnish with cherry tomatoes and parsley. Serves 4.—*K. S., Puyallup, Wash.*

Cinnamon-spiced Muffins

In a large bowl, stir 4 cups baking mix (biscuit mix) to break up lumps. Mix in 4 tablespoons sugar, 1½ teaspoons ground cinnamon, and ¾ teaspoon ground nutmeg. Make a well in the center of the dry ingredients; pour in 1¼ cups milk and ⅓ cup melted butter; stir until all of the ingredients are evenly moistened.

Generously grease two dozen muffin cups (about 3-inch diameter) and fill each about ½ full with batter. Bake in a 350° oven for 20 to 25 minutes or until tops are golden and spring back when lightly touched. Makes about 24 muffins.—*F. N., San Francisco.* ◻

It's easy to turn two great tastes into one great picnic.

Here's a great idea for your family from Foster Farms: delicious, meaty whole chicken legs for the kids and the enticing, tender taste of Rock Cornish Game Hens for you. What a combination. And they're both so easy to prepare and to serve cold.

Whole Legs Teriyaki.
Melt together ¼ cup butter and 3 tablespoons Teriyaki sauce. Brush legs. Broil or bake. Cool and pack in covered plastic container or aluminum foil.

L'Orange Cornish.
Warm 2 tablespoons orange marmalade with ¼ cup melted butter for each game hen. Brush hens frequently while roasting or broiling. Cool in refrigerator.

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"There's lots of red and green bits of real bell pepper right in the dressing."

"Delicious. The Best-Dressed Salads™ wear Seven Seas."®

DARROW M. WAT

Use a wire whip *to beat eggs as you gradually add hot sherry*

Three-minute zabaglione

In microwave ovens that cook at reduced power levels, you can easily create delicate desserts such as zabaglione. Prepared at a medium or 50 percent power setting, the egg-rich mixture becomes a tender, velvety custard in just 3 minutes. Spoon flavorful zabaglione over whipped cream, and you have a special company dessert, quickly prepared as guests relax between courses.

Zabaglione Cream

- ⅔ cup whipping cream
- 5½ tablespoons sugar
- ½ cup dry sherry
- 8 egg yolks

Whip the cream and sweeten with 1½ tablespoons of the sugar. Evenly spoon into 6 to 8 stemmed glasses; set aside.

In a measuring cup, heat the sherry in the microwave oven at full power for 1½ minutes. With a wire whip, beat the egg yolks in a glass bowl with the remaining 4 tablespoons sugar until sugar is dissolved. Beating constantly, slowly add the hot sherry. Place the bowl in the oven and cook, uncovered, at medium (50 percent) power for 3 minutes, beating well with a wire whip after each minute. Mixture should be thickened and smooth; if it's not, cook an additional 10 to 20 seconds, then beat well. Evenly spoon over whipped cream. Makes 6 to 8 servings. ▫

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DARROW M. WATT

Use coarse shredder *to prepare fresh zucchini for our three lunch or supper entrées. Easy enchiladas above are filled with handfuls of zucchini, cheese, olives*

Simply adding zucchini gives a fresh colorful twist to three quick lunch or supper favorites.

In the first, shredded zucchini provides a tender-crisp filling for enchiladas. Our second recipe combines zucchini and two cheeses for a flavorful, crustless quiche. In the third dish, the shreds are tossed with cheese and caraway, then piled on top of frankfurter or sausage sandwiches.

For best results, use coarsely shredded zucchini and handle the shreds as little as possible—too much handling makes them watery.

Shredded Zucchini Enchiladas

- Tomato and bell pepper sauce (directions follow)
- 1 dozen corn tortillas
- 5 small (about 1¼ lbs.) zucchini, coarsely shredded
- 1 can (2¼ oz.) sliced ripe olives
- 4 cups (about 1 lb.) shredded Cheddar cheese
- 1 cup sour cream (optional)

Prepare tomato sauce as directed and set over low heat.

To make the enchiladas, dip each tortilla in the sauce for about 1 minute to soften. Then fill each with about ½ cup of the shredded zucchini, a few olive slices, and 2 or 3 tablespoons of the cheese; roll tortilla loosely around filling. Arrange

With zucchini, almost anything goes . . . enchiladas, quiche, franks

BLT-ERRIFIC!

The Sandwich Days BLT ...an old favorite made really special with the lively taste of Miracle Whip. The Bread Spread. And with this 10¢ coupon for Miracle Whip salad dressing, a sandwich becomes a BLT-errific kind of deal.

:am sides down, in a single layer in an ngreased, shallow, 3-quart baking dish; ghtly press enchiladas together, if nec- ssary, to fit.

poon remaining tomato sauce evenly ver tortillas and sprinkle with remain- ng cheese. If made ahead, cover and efrigerate.

ake, uncovered, in a 350° oven for 25) 30 minutes (about 50 minutes if made head) or until hot and bubbly. Pass our cream, if desired, to spoon over ndividual servings. Serves 6.—*D. K., 'hoenix.*

'omato and bell pepper sauce. Heat 2 ablespoons olive oil or salad oil in a -quart pan over medium heat. Add 1 nedium-size onion (coarsely chopped) nd cook, stirring frequently, until onion s limp, about 10 minutes. Add 1 me- ium-size green pepper (seeded and hopped) and 2 cloves garlic (minced or ressed). Cook, stirring, just until green epper is tender, about 3 minutes.

Add 1 large can (about 15 oz.) tomato auce and 1 can (about 16 oz.) tomatoes nd their liquid; break up tomatoes with spoon. Stir in 1 bay leaf, 1 teaspoon *ach* dry basil and sugar, ½ teaspoon *ach* oregano leaves and ground cumin, nd ¼ teaspoon cayenne. Stir in 3 to 4 easpoons chili powder.

Cover pan, reduce heat, and simmer about 25 minutes to blend flavors; remove bay leaf. If made ahead, cool and refrigerate; then, just before assembling the enchiladas, set over medium heat, stirring occasionally, until hot.

Shredded Zucchini Quiche

- 8 eggs
- ¼ cup milk
- 2 cloves garlic, minced or pressed
- ¼ teaspoon salt
- ¾ teaspoon pepper
- ¼ cup grated Parmesan cheese
- 1 tablespoon butter or margarine
- ¼ cup wheat germ
- ½ cup (about ⅛ lb.) shredded Swiss cheese
- ¼ cup chopped green onion (including tops)
- 2 small (about ½ lb.) zucchini, coarsely shredded
- 1 cup (about ¼ lb.) shredded jack cheese

In a large bowl, beat eggs and milk together. Add garlic, salt, pepper, and Parmesan cheese and stir until well blended; set aside.

Generously spread the butter over bottom and sides of a 9-inch pie pan, then evenly sprinkle pan with the wheat germ. Top with an even layer of the Swiss cheese, followed by onion, then zucchini. Sprinkle with the jack cheese and then pour egg mixture over all.

Bake, uncovered, in a 350° oven for 25 to 30 minutes or until center is set when lightly touched. Remove and place on a wire rack to cool. Serve at room temperature or chilled. Serves 6.—*R. R., Richmond, Calif.*

Shredded Zucchini Franks

- 4 small (about 1 lb.) zucchini
- ¼ cup grated Parmesan cheese
- 1 teaspoon caraway seed
- 2 cups (about ½ lb.) shredded jack or Swiss cheese
- 8 frankfurters, smoked sausage links, or other fully cooked sausage
- 8 frankfurter buns or French rolls, toasted
- 1 medium-size red onion, thinly sliced
- Paprika
- Mustard and pickle relish

Shred zucchini and put in a bowl. Add Parmesan cheese, caraway seed, and shredded jack or Swiss cheese; stir very gently to mix. Set aside.

Slash frankfurters lengthwise almost in half but not through casing. Place each frankfurter, split side up, in a toasted bun. Stuff each with a few onion slices and about ½ cup of the zucchini-cheese mixture. Sprinkle with paprika.

Wrap sandwiches in foil and bake in a 400° oven for about 10 minutes or until hot. Pass mustard and relish at the table. Makes 8 sandwiches. □

Sandwich Days

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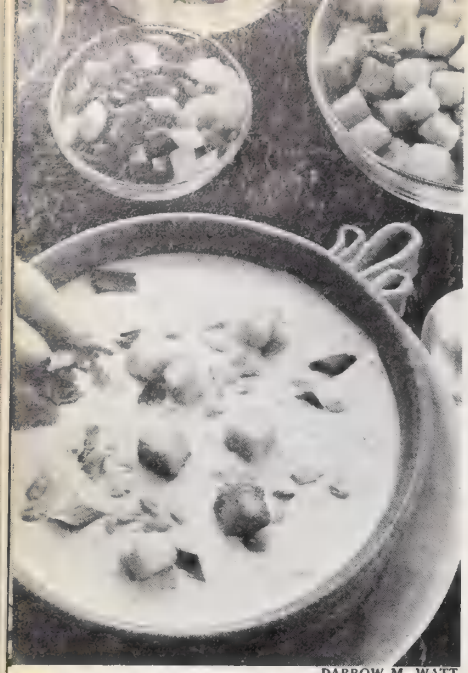

DARROW M. WATT

At the table, *add some crunchy condiments to chilled Cucumber Cream*

Two soups . . . deliciously cold

Chilled vegetable soups have built-in flexibility. They can be ready and waiting in the refrigerator to serve as a meal opener or as the main course of a summer luncheon or supper.

Creamy cucumber soup and chunky vegetable-laden gazpacho have the extra advantage of being quick to make; they require no cooking. When served as the first course of a dinner, they can also take the place of the salad. Or pair either one with a sandwich or with cheeses, cold meats, and breads for a light meal to serve at any hour.

Cucumber Cream

- 3 medium-size cucumbers, peeled and cut in cubes
- 1 clove garlic, halved
- 3 tablespoons *each* chopped parsley and onion
- 1 cup regular-strength chicken broth
- 3 tablespoons white wine vinegar
- 2 cups unflavored yogurt
- 1 cup sour cream
- Salt and pepper
- Condiments (suggestions follow)

In a blender container, combine cucumbers, garlic, parsley, onion, broth, and vinegar; whirl until well blended. Pour about half of the mixture into a quart container; set aside.

Add half the yogurt and half the sour cream to the cucumber mixture in blender and whirl until smooth. Repeat with the reserved cucumber mixture and the remaining yogurt and sour cream. Season to taste with salt and pepper. Cover and chill as long as 24 hours.

Stir well, then serve in small bowls. Pass 3 or 4 condiments, each in a small bowl, to sprinkle over top. Makes about 1½ quarts.

Condiments. Seeded and chopped tomatoes, thinly sliced green onion, chopped fresh mint or parsley, crisp crumbled bacon, sunflower seeds, or croutons.—*K. B., San Rafael, Calif.*

Chunky Gazpacho

- 1 can (28 oz.) stewed tomatoes
- 1 medium-size green pepper, seeded and coarsely chopped
- ½ cup thinly sliced green onion
- ½ cup diced celery
- ¼ cup *each* chopped watercress and sliced pimiento-stuffed green olives
- 2 cloves garlic, minced or pressed
- ¼ cup finely chopped parsley
- 3 tablespoons olive oil or salad oil
- 1 tablespoon red wine vinegar
- 1 teaspoon soy sauce
- Salt and pepper
- Freshly grated Parmesan cheese

In a bowl, combine the tomatoes (cut in bite-size pieces) and their liquid, the green pepper, onion, celery, watercress, olives, garlic, parsley, oil, vinegar, and soy. Stir well and add salt and pepper to taste. Cover and refrigerate overnight or as long as 3 days.

To serve, ladle into small bowls and pass Parmesan cheese to sprinkle over top. Makes 5 cups.—*D. M., Eugene, Ore.* □

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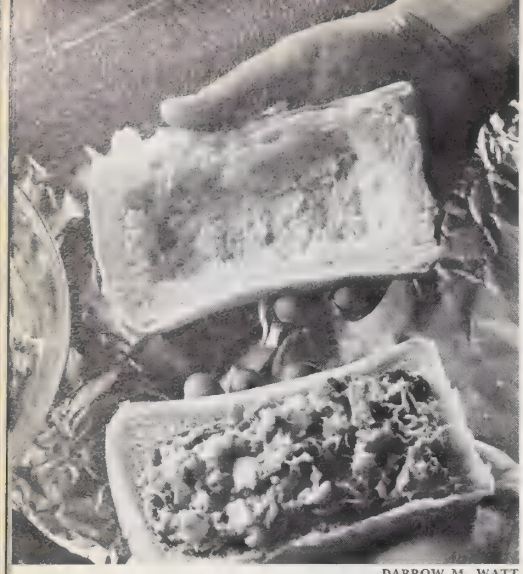


DARROW M. WATT

Hollowed *French rolls are the crusty cradles for generous mounds of tuna-olive salad filling*

For the hungry: hollow sandwiches with hot, meaty insides

When appetites roar after an active summer day, crusty-roll sandwiches solve the problem about what to fix for a quick supper. You assemble them in the morning or a day ahead, packing the rolls with a crunchy tuna or meat salad and wrapping them in foil. Later you can eat them cold or heat them in the oven or by the campfire.

Fill out the menu with crisp vegetable sticks or a mixed green salad, a tall glass of ice-cold milk or other beverage, and fresh fruit.

Foil-wrapped Salad Sandwiches

Prepare one of the salad fillings as directed and set aside.

Pull soft centers from top and bottom of 6 split French rolls, leaving about ¼ inch bread around the edges. Divide sandwich filling between rolls, mounding it into hollowed tops. Replace bottoms of rolls and wrap each roll in two layers of heavy foil; store in a refrigerator or cooler for as long as overnight.

Bake sandwiches in a 400° oven for about 20 minutes or until filling is hot (unwrap one roll to check). Or, to heat with low-glowing coals, clear outer edge of firepit (if it's windy, shelter coals as much as possible). Arrange the wrapped rolls so they're close to coals but not touching. With tongs or barbecue mitt, turn rolls every 1 or 2 minutes to heat evenly; cook for about 20 minutes or until hot. Makes 6 sandwiches.

Tuna and olive salad filling. In a large bowl, stir together 1 cup (about ¼ lb.) shredded Cheddar, Swiss, or jack cheese, 2 tablespoons Dijon mustard, ½ teaspoon sugar, and a dash of pepper.

With a fork, flake 1 large (12 oz.) can chunk-style tuna and add to cheese mixture; also add 1 green pepper, seeded and chopped; 1 can (8 oz.) water chestnuts, drained and chopped; and 1 can (2¼ oz.) sliced ripe olives, drained. Mix.

Corned beef and carrot salad filling. In a large bowl, stir together 1 cup (about ¼ lb.) shredded Cheddar, Swiss, or jack cheese, 2 tablespoons Dijon mustard, and a dash of pepper.

Cut 1 large can (12 oz.) corned beef into ¼-inch cubes and add to cheese mixture. Add 2 medium-size carrots, shredded or finely diced, and 4 dill pickles, chopped. Stir gently to mix well. Taste and add more mustard and pepper if desired.

Chicken and chili salad filling. In a large bowl, stir together 1 cup (about ¼ lb.) shredded Cheddar, Swiss, or jack cheese, 2 tablespoons Dijon mustard, ¼ teaspoon chili powder, and a dash of lemon pepper.

With a fork, flake 2 cans (5 oz. *each*) chunk white chicken and add to cheese mixture. Add 1 small can (4 oz.) diced green chilies, drained, and ½ cup *each* finely chopped celery and green onion. Stir until well mixed. □

IF YOU THINK STEAK HAS A LOT OF PROTEIN, YOU DON'T KNOW BEANS.

Van Camp's® pork and beans are tasty. Your family can vouch for that. But if you don't know they're a good source of protein and iron and calcium, you just don't know beans.

16 OZ. (1⅓ SERVINGS) OF VAN CAMP'S® PORK AND BEANS CONTAINS		
AS MUCH PROTEIN AS:	AS MUCH IRON AS:	AS MUCH CALCIUM AS:
4 OZ. BONELESS STRIP STEAK	26 OZ. FRESH ASPARAGUS	7.5 FLUID OZ. COTTAGE CHEESE
OR 3 SMALL EGGS	OR 13 OZ. T-BONE STEAK	OR 5.5 FLUID OZ. MILK
OR 16 FLUID OZ. MILK	OR 8.3 OZ. FRESH SPINACH	OR 5.4 FLUID OZ. YOGURT

Check the chart. You'll see how Van Camp's® pork and beans compare to your favorite foods. No wonder Van Camp's® pork and beans are number one in the whole U.S.A.

Want to see a hot dog shine?

Put French's on it.

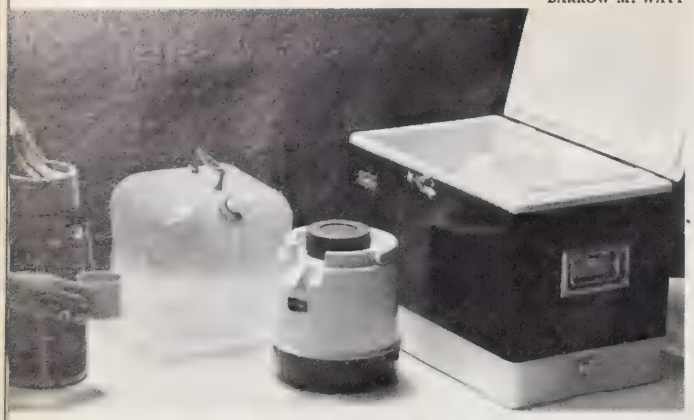
Open up your hot dog and let the sunshine in – the Sunshine Mustard, that is – French's. French's has a bright sunny color and a bright sunny taste. That's why you'll take a shine to a hot dog when you put French's Mustard on it.

French's.
The Sunshine Mustard.

© 1980 R. T. FRENCH CO.

French's
We make your life delicious

DARROW M. WATT



Cold foods cold, hot drinks hot. New containers help

New picnic conveniences: *Insulated vacuum bottle with pump for hot or cold drinks, $15 to $25. Collapsible 5-gallon water jug, $2.50 to $5. Insulated jug that dispenses cold drinks when top is pressed, $10 to $15. Freeze-at-home tray, $4 to $5, fits inside cooler chests. At right, lightweight one-handle chest, $10 to $15*

Hours after leaving home you spread out the picnic foods—and the cold food is still chilly-cold, the salad greens still crisp, the coffee still piping hot. Some new designs make this happy experience easier than ever to achieve this summer.

Pump-action jugs. These new jugs force liquids out, down to the last drop. With spigots near the top, they needn't be perched over a table edge or tipped during use—a feature you'll appreciate in the car or on the grass.

Make chicken from around the corner taste like it's from halfway around the world.

Now in no time at all, you can turn an ordinary chicken into Easy Chicken Oriental.

This recipe involves no stir-frying and it's chock-full of everything from delicious water chestnuts to pea pods. Crisp vegetables to pieces of chicken.

And it's all simmered under a light 'n flaky Bisquick® crust.

Yes, with over 45 years of cooking experience in every box, there's nothing like Bisquick for baking new life into your chicken.

BISQUICK. Something good always comes of it.®

EASY CHICKEN ORIENTAL

1 package (6 ounces) frozen Chinese pea pods
1 can (10¾ ounces) condensed cream of mushroom soup
¼ cup milk
1½ cups cut-up cooked chicken*
½ cup sliced green onions
½ cup diagonally sliced celery
1 can (8 ounces) sliced water chestnuts, drained
1 cup Bisquick® baking mix
3 tablespoons water
2 teaspoons soy sauce
1 tablespoon margarine or butter, melted
2 teaspoons sesame seed

Heat oven to 425°. Rinse frozen pea pods under running cold water to separate; drain. Mix pea pods, soup, milk, chicken, onions, celery and water chestnuts in 3-quart saucepan. Heat to boiling, stirring constantly. Reduce heat; keep warm.

Mix baking mix, water and soy sauce until soft dough forms; beat vigorously 20 strokes. Gently smooth dough into ball on well-floured cloth-covered board. Knead 5 times. Roll into 5-inch square. Cut dough into 1-inch squares. Pour chicken mixture into ungreased 1½-quart round casserole. Top with dough squares; spread dough with melted margarine. Sprinkle with sesame seed. Bake until golden brown, about 15 minutes. 5 or 6 servings.

*2 cans (5 ounces each) chunk white chicken can be substituted for the cooked chicken.

High Altitude Directions (3500 to 6500 feet): Heat oven to 450°. Use 2-quart round casserole.

©General Mills, Inc. 1980

Read labels carefully: Some of the jugs are vacuum bottles, designed for either hot or cold drinks but not for ice cubes. Others are insulated jugs—often intended for cold liquids only. These are usually lighter and less breakable, and will take ice cubes.

Pump-action jugs are for clear, thin liquids such as coffee or tea; most do not work well for carbonated drinks, milk, or soup. Preheat or prechill them with hot or cold water before filling.

Collapsible jugs. For toting water for drinking and cleanup, easy-to-carry collapsible jugs are available in 1- to 5-gallon sizes. The newer ones have wider, quick-fill openings big enough for ice cubes. Spigots have "on" and "off" positions to prevent leaking.

Some manufacturers state that their jugs can be frozen without cracking, so you could freeze a layer of ice in one and then add water.

Cooler chests. Even the least expensive all-foam cooler chest will, if used properly, keep foods cool for day use. Single-handle plastic chests are popular because they can be carried one-handed.

For camping and boating—when more foods must be kept cool longer and when durability is important—invest in a chest with metal or heavy-duty plastic encasing the insulation. Some newer plastic models are lighter in weight than the metal-lined ones, yet have the same cooling capacity and sturdiness.

Look for conveniences such as large, easily held handles and tight lids that lock in place and are hinged so they're not likely to blow away or be misplaced. Some models have trays that fit into tops, keeping selected foods well above melted ice, and drains that allow virtually all the water to run out when the chest is level. An innovation this year is a hollow-walled tray that you can fill with water and freeze before leaving home.

For best cooling, chill the chest (by inserting ice) for an hour before you pack, and prechill foods to be packed.

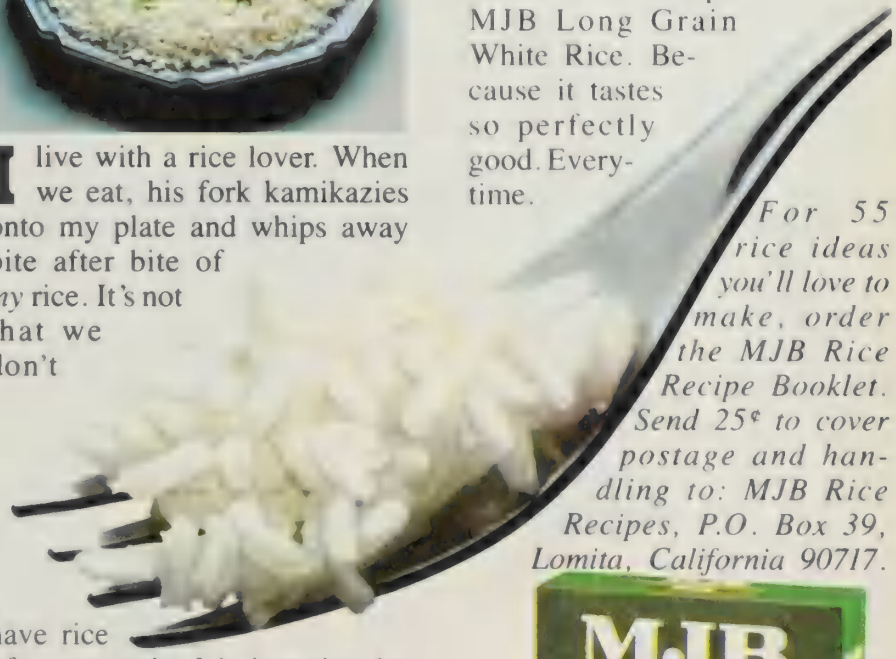
Ice is the best coolant for its weight and size. For large chests, blocks of ice last longest. For smaller chests and for when you want faster cooling, break off chunks from a larger block (but don't break them inside the chest, or you may damage the liner). Or use chipped or party ice. Chemical ice preparations melt more slowly, but are not as cold as water ice.

The coldest part of the chest is at the bottom, a good place for drinks and perishables packed in rigid, watertight containers. Pack items to be used first on top, if possible, and store the most perishable items right next to the ice. Fill any nooks and crannies with extra ice. Keep the chest in the shade; open the lid as seldom as possible. □

A GUIDE TO RICE LOVERS:

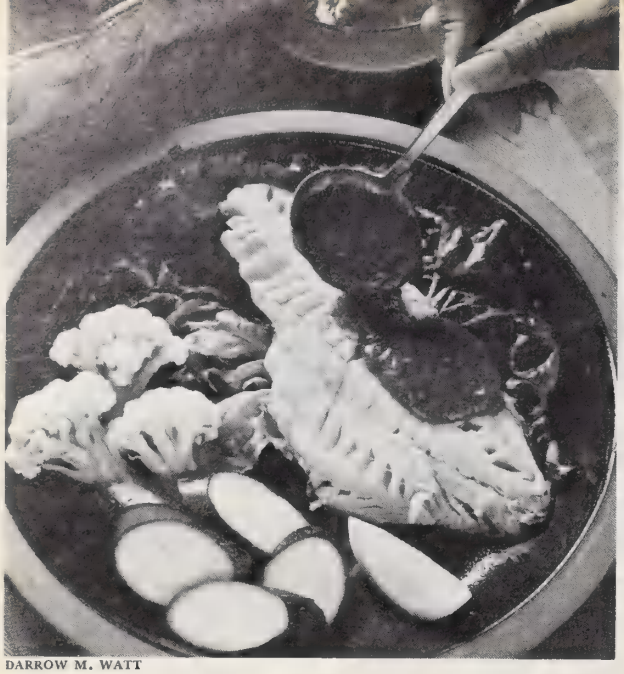
How Soon You Learn Only A Fork-Fluffy Rice Will Do

I live with a rice lover. When we eat, his fork kamikazies onto my plate and whips away bite after bite of *my* rice. It's not that we don't have rice often enough. It's just that he can't get enough. He loves the taste of a perfectly cooked, tender forkful of rice. I use MJB. Long Grain White Rice. It's the perfect rice for us, because it cooks up exquisitely light and fork-fluffy. Whether I cook it. Or he cooks it. And we use it in so many ways. All by itself . . . with a tad of butter. Stretching our budget as a nutritious rice side-dish. Or a delectable casserole. There are hundreds of ways to serve rice. And when you live with a rice lover, you become a rice expert. MJB Long Grain White Rice. Because it tastes so perfectly good. Every-time.



For 55 rice ideas you'll love to make, order the MJB Rice Recipe Booklet. Send 25¢ to cover postage and handling to: MJB Rice Recipes, P.O. Box 39, Lomita, California 90717.

MJB **Another Fine Food From The MJB Family.**



DARROW M. WATT

Cool fish, cold vegetables... refreshing hot day supper

Spicy cocktail sauce—*or avocado or herb-cheese sauce—goes over poached fish and raw vegetables for a cool supper*

On a hot summer day, cool poached fish with a choice of avocado, herb-cheese, or spicy cocktail sauce makes a refreshing light supper. Accompany the fish with raw or cooked cold vegetables—such as cauliflower, broccoli, zucchini, cucumber, carrots, or tomatoes—to dip into the sauce.

Cool Poached Fish with Sauce

About 2 cups *each* water and dry white wine
1½ teaspoons salt
8 whole black peppers
1 small onion, cut in chunks
4 to 6 sprigs parsley
2 to 3 pounds fish fillets (such as lingcod or rock fish)
Lettuce leaves
Lemon wedges
Creamy avocado sauce, Herb-cheese sauce, or Spicy cocktail sauce (recipes follow)

In a wide frying pan, combine the water and wine, the salt, peppers, onion, and parsley. Cover and simmer about 20 minutes. Place fish fillets in a single layer in pan without crowding. If necessary, add equal parts water and wine until liquid just covers fish. Cover and simmer until fish is no longer translucent in thickest part, about 10 minutes for each inch of thickness. Remove fish with a slotted spatula, let cool, then cover and chill. Save liquid for another use.

To serve, arrange fish on lettuce leaves and garnish with lemon wedges. Pass sauce to spoon over servings. Makes 4 to 6 servings.—*U. P., Belmont, Calif.*

Creamy avocado sauce. In a blender or food processor, combine 1 egg, 1½ tablespoons bottled green peppercorns (rinsed and drained), ¾ teaspoon salt, ¼ cup lemon juice, 3 tablespoons half-and-half (light cream), and 2 ripe avocados (peeled and cut in chunks). Whirl or process until smooth.

Herb-cheese sauce. In a blender or food processor, combine 1 cup cottage cheese, 1¼ teaspoons dry mustard, 1 teaspoon *each* chervil and dill weed, ½ teaspoon salt, and 3 tablespoons sliced green onion; whirl or process until smooth. Stir in 1 cup sour cream. Cover and chill at least 1 hour.

Spicy cocktail sauce. Stir together 1 cup catsup, 2 tablespoons lemon juice, 2 tablespoons prepared horseradish, 1 teaspoon Worcestershire, and ¼ teaspoon liquid hot pepper seasoning. □

Curemaster Ham.
Little, lean and luscious.

96% lean and naturally juicy.

Hormel Curemaster is the lean little ham that weighs just 1½ to 2¼ lbs. There's not an extra ounce of fat or gristle. And Curemaster is incredibly luscious because just the right amount of savory juices are left in during our smoking and cooking process.

The little ham that's worth a little more.

Hormel America's first name for ham.

In ogni bottiglia di salad dressing Bertolli ci sono tutte le cose buone dell'Italia. Spezie ed erbe italiane... aceto di vino Bertolli ed olio d'oliva Bertolli della migliore qualitá. Non ci sono né sostanze conservanti né aromatizzanti artificiali. Bertolli produce tre ottimi salad dressing... Classico Italiano, al Gorgonzola, e Caesar. Però attenzione... dopo il primo assaggio non potrete piú usare un prodotto inferiore.

For a translation:

just open a bottle of Bertolli Salad Dressing.
Imported from Italy—naturally.

AUGUST IN YOUR GARDEN:

What's top priority? Watering. What's next? Watering. Other August urgencies: feeding, housekeeping

Concerning August, the choice is yours: you can plant seeds for winter, spring, and next summer; you can fertilize and clean up; or you can just enjoy the fruits of your previous labors. The most critical job this month can be summarized in one word: water.

If you decide to take it easy this month, get a good rest. The busy fall planting season is on its way.

From Italy, long-term storage idea for cherry tomatoes

As a girl growing up on a farm in Tuscany, Italy, Frances Rugani remembers long, colorful bunches of cherry tomatoes hung on poles from the rafters. Now she gardens in San Jose and stores cherry tomatoes the same way.

To make the poles, Mrs. Rugani takes a 4-foot-long 2 by 2 and drives in 3-inch nails 4 to 5 inches apart and facing toward the top of the pole at a slight angle. She screws an eyehook into the top of the pole to hang it by.

Pick cherry tomatoes in bunches just when the bottoms of the fruits begin to turn pink. Hang the tomatoes, one bunch per nail, in a cool, well-ventilated spot away from direct sunlight. With this treatment, the tomatoes should last until about next March. The few tomatoes that shrivel get tossed into the soup pot.

Teletips system begins for northern California gardeners

Gardeners in 11 northern and central California counties can now get expert information from their county's extension service just by picking up the phone.

The Cooperative Extension "Teletips" system uses 2- to 3-minute-long tape-recorded messages to give callers information on gardening and home economics. The first time you call Teletips, ask to be sent a brochure listing the taped subjects by number. Then, on your next calls, just ask by number for the tape you want to have played.

Here are the counties with Teletips systems and numbers to call: Alameda and Contra Costa, 642-7252; Butte, 534-4201; Inyo-Mono, 873-5891; Lake, 263-2281; Sacramento, 366-2013; Santa Clara, 299-2635; Siskiyou, 842-2711.

Mendocino, San Joaquin, and Shasta counties will have Teletips service soon.

Sunset's GARDEN GUIDE

Golden Gate Park— looking toward its next century

One of the West's great urban recreation areas, Golden Gate Park is beginning a major effort of reforestation and preservation this year. The public is invited to learn about the park through a series of lectures and workshops to be held this month and continuing through the fall.

Through programs of slide presentations, park tours, and talks, you can learn how the park deals with high winds, drifting sands, and overage stands of trees. You'll learn some of the history of the park, how to identify plants, and why certain plants are chosen for specific uses in the park. This fall, you can help plant trees in areas of the park designated for reforestation. For more information, call Deborah Lerner at (415) 558-3182.

When you have hot feet, potted plants do too

The San Joaquin and Sacramento valleys get hot in midsummer, *really* hot. Potted plants on concrete or brick patios may need water once or even twice a day.

However, sometimes watering is not enough. Hot sun reflected from concrete or bricks can heat up the root systems of tender potted plants so much that some of them may slow down or stop growing. When your patio is too hot to

verhead arbor cools patio, cuts glare

he hot summer sun makes it impossible to use part of your garden (or use, for that matter), build yourself some shade. That's what Betsy and Paul eves did to shield their pool decking and living room from afternoon heat.

eir west-facing yard in Glendale, California, was all pool and concrete en they bought the house (see photograph above). "You couldn't even sit in living room," says Mrs. Cheves. "It was hot and filled with glare." To cut glare, they paved over the concrete with brick and built the overhead or with $70 worth of secondhand lumber.

he house is small," she explains, "so we use the patio every month of the r now." It is as suitable for small brunches (as shown here) as for large ning parties, which are frequent in summer. Dappled shade is good for the efflera; annuals in pots change each season—these are sweet alyssum, ysanthemums, and semperflorens begonias (far left).

DARROW M. WATT

When you grow seeds *saved from hybrid marigolds, here's what you might get: dozens of 1- to 2-inch multicolored flowers on one plant*

walk on in bare feet, it's probably too warm for plants too.

When this happens, Sacramento nurseryman Dan Pratt recommends that gardeners set potted plants on pieces of 1 by 1. Gardeners who have tried it report that, with the cooling airspace underneath the pot, plants frequently resume vigorous growth. And raising the pots an inch also helps give plants good drainage.

Save seeds from hybrid marigolds?

If you like to experiment with plants, you might save seeds from your modern hybrid marigolds to grow next spring.

What's different about growing seeds from hybrids?

These seeds usually revert to unusual forms and colors. The smooth and ruffled multicolored marigolds pictured at left were all borne on one plant. Gardener Shirley Wilkenson of Palo Alto, California, collected seeds, stored them, then grew them the next spring.

When the marigold seed head has dried completely, she snips it off and rubs the seeds out of their papery casing. Then she stores them in small plastic bags in a cool, dark place. She labels the bag with the height of the plant the seed was taken from.

The following spring, she starts the seeds in flats for transplanting in summer.

Not all marigold hybrids produce seed you can grow. Mule or triploid hybrids are usually unable to produce seeds.

Alan Chadwick, "poet of the soil"

Two months ago, Alan Chadwick died. Although he had been involved in West Coast horticulture for only 13 years, he left behind what could have been the work of several lifetimes. Primarily he showed the West a very productive way to grow vegetables, fruits, and flowers. In doing this, he also taught the discipline of craftsmanship to hundreds of people in his four California gardens.

"Bio-dynamic French intensive gardening" is what he called his kind of plant husbandry—and today, thanks to his teaching, thousands grow plants with more sensitivity to the environment. The Chadwick brand of organic gardening is both an awareness and a technique.

His teachings at U.C. Santa Cruz, Saratoga, Covelo, and near Muir Beach have spread widely and will endure; two of his former students have written books which now constitute the basic literature on the Chadwick kind of gardening: *Alan Chadwick's Enchanted Garden* by Tom Cuthbertson and *How to Grow More Vegetables* by John Jeavons. □

AUGUST CHECK LIST: *Here are the chores*

☐ **Care for dahlias.** Remove dying flowers, spent stalks, and dried-out leaves. To produce large flowers, thin to the strongest bud on each stem; keep up regular watering.

☐ **Care for fuchsias.** Remove faded flowers and yellow leaves. Cut branches back occasionally to force side branching and encourage flowering. Water frequently and feed regularly with a complete liquid fertilizer.

☐ **Clean up fruit trees.** Get rid of rotting fruit lying on the ground and remove rotting or dying fruit still clinging to the tree.

☐ **Divide iris.** If you haven't done it yet, divide bearded iris rhizomes that are three years old or older to get good bloom next spring. See page 186 of last month's *Sunset* for step-by-step instructions.

☐ **Fertilize flowers and shrubs.** Azaleas, camellias, and rhododendrons need a final dose of acid fertilizer for good bloom next spring (they're setting buds now). Give annuals a frequent light fertilizing.

☐ **Make a last planting of corn.** In the warmest areas, if you seed corn early this month, you should be able to harvest ears until the first hard fall frost hits. (But ears will be slightly smaller than usual.)

☐ **Plant a fall and winter garden.** Set out broccoli, cabbage, and cauliflower transplants for a fall harvest. Sow seeds of beets, carrots, lettuce, parsley, radishes, Swiss chard, and turnips. Keep the seedbed moist. In hot inland valleys, shade seedbeds with lath or panels made from shadecloth.

☐ **Sow seeds for winter bloom.** Sow calendula, pansy, stock, snapdragon, and viola now to get seedlings you can set out when nights begin to cool. Near the coast, you can sow cineraria, nemesia, and schizanthus. If you have 10 weeks before the first heavy frost, sow celosia, marigolds, and zinnias.

☐ **Tend lawns.** Deep watering early in the morning lets grass dry out by evening and reduces the chances of a fungus infection. Feed warm-season lawns (Bermuda, dichondra, St. Augustine) but not cool-season grasses such as bent or bluegrass.

☐ **Trick those gophers.** Often they'll tunnel up from the soil right into a pumpkin or winter squash, leaving a hollow shell before you spot the slightest sign of damage. Set a shingle or piece of wood under each fruit to spoil the critters' designs on your cucurbits.

☐ **Treat iron chlorosis.** After last spring's torrential rains and summer's deep watering, citrus and gardenias may start to show signs of iron deficiency. It shows up as light green leaves with dark green veins. Treat (in severe cases) with iron sulfate or chelated iron in liquid foliar spray or granular forms.

☐ **Water.** Check plants in containers frequently—they may need water more than once a day. Keep up regular deep watering of lawns, shrubs, and trees. Pay special attention to new plantings.

HOW TO SAVE FUEL DURING YOUR SUMMER VACATION

ENGINE TUNING, TIRE PRESSURE, AND HOW YOU DRIVE MAKE A BIG DIFFERENCE.

You're sure to be on the move this summer. With gas more expensive, you may find a few simple reminders on the best ways to get maximum mileage helpful. They won't take a lot of time, and may save you a fair amount at the gas pump.

A car that is properly tuned and maintained will be the most fuel-efficient. Newer GM cars require less routine maintenance than older ones, but all cars require some periodic check-ups. Fouled spark plugs, improper spark timing or clogged oil and air filters all can reduce mileage significantly. So be sure to follow the maintenance program in your GM Owner's Manual and Maintenance Schedule.

Underinflated tires waste lots of gas. Tires that are too soft have a higher rolling resistance, which forces the engine to work harder and to use more fuel. So have the tire pressures checked periodically or use a tire gauge yourself to be sure your tires are inflated to the pressure recommended in the GM Owner's Manual.

Air conditioning also takes fuel, so try not to use it except when it's absolutely necessary. Whenever possible, use the vent position on the air conditioner to circulate air; it'll be quieter and cleaner than opening the windows all the way. If you can park in the shade, it'll be much cooler when you get into the car, and you'll be less likely to want to switch on the air conditioner.

Keeping the proper amount of coolant in the radiator will help prevent your car from overheating. It won't save fuel, but it may save expensive towing costs. A lot of people think it's okay just to add extra water, but that can actually cause the mixture in your radiator to boil. Coolant—a 50/50 mixture of ethylene glycol antifreeze and water—raises the boiling temperature and will therefore help prevent overheating.

Your driving habits are probably the most important factor of all in saving fuel. The best advice we can give is to drive at moderate speeds and accelerate evenly. For example, jackrabbit starts take much more gasoline than gradual acceleration. Frequent stops will also cost you fuel, because every "pump" of the accelerator means extra gas going through the carburetor. Also, "riding the brake" creates a lot of unnecessary friction and wastes gas.

Extra weight in your trunk, such as tire chains, golf clubs you don't plan to use, even unnecessary luggage, takes more gas to haul. And finally, driving at high speeds substantially reduces fuel economy. So observing the 55 mile per hour speed limit makes economic sense and may save lives, too. Tests confirm that you can get approximately 20% better mileage by driving at 50 miles per hour than at 70 miles per hour.

Attention to routine maintenance and moderation in how you drive are the keys to getting the best mileage from your car during this summer. That'll save you money and help make sure that there's enough gas for others to enjoy a summer vacation, too.

This advertisement is part of our continuing effort to give customers useful information about their cars and trucks and the company that builds them.

General Motors

People building transportation to serve people

August realities: plant slowdown, critical watering, vegetable harvest. Why not stage a harvest party?

Sunset's MOUNTAIN STATES GARDEN GUIDE

August means harvest to high-elevation gardeners—fruits, flowers, and vegetables may be coming in faster than they can be used or given away. How about having a garden party to celebrate the harvest and to use up some surplus produce while it's at the peak of flavor?

If your garden is particularly handsome this month, you still have time to enter *Sunset's* Garden Contest. See page 188 of last month's issue for entry details.

About watering and overwatering

Watering is one of the most critical garden chores this month: too little and plants may suffer, too much and your water bill may suffer. Here's help.

Overwatering squash, melons, and cucumbers causes blossoms to fall off. These plants have built-in mechanisms that cause the leaves to look wilted and droopy during the heat of the day. They generally perk up by evening. If they don't, it's time to water. In good soil, these plants have a root system that's 2 to 2½ feet deep; water thoroughly enough to reach the bottommost roots.

You might not be thinking about winter yet, but well-established trees and shrubs are. Their growth is starting to slow down. Give less water (and no fertilizer) to established plants to discourage them from putting out flushes of tender growth that could be injured by an early frost. However, newly planted trees and shrubs haven't developed an efficient root system yet—water them thoroughly to encourage roots to grow deep.

Need lots of trees? Maybe your state forester can help

Do you have a large area (usually 2 acres or more) that would benefit by having trees planted on it? In every Western state, the department of forestry sells started tree seedlings to homeowners who meet certain requirements. Generally, the trees must be used for windbreaks, wildlife shelters, erosion control, or reforestaton. They may not be used for home landscaping.

The minimum number of trees you can purchase varies from state to state. Nevada, for example, will sell as few as 25 seedlings, but Oregon residents must buy at least 400. (It takes about 300 to 500 seedlings to forest 1 acre.) The list of tree species also varies by state.

Beginning this month, forestry departments in many states will take orders for seedlings to be picked up next spring. Prices vary according to the number and species of trees you order; expect to pay from $8 to $50 per 100 seedlings. Contact the Forest Service Nursery Division or the Division of Natural Resources in your state for more information.

Top 40 radio foils garden bandits

Gardeners Robert and Emma Davis of Belgrade, Montana, have come up with a clever way to keep skunks and raccoons out of the corn patch.

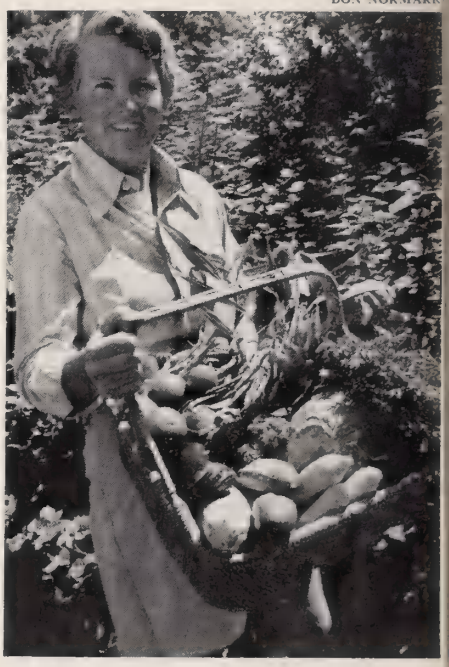
A few days before the corn is ready to harvest, they put a radio tuned to an all-night station out in the garden. The music and continual chatter keep the raccoons and skunks away. The Davises turn the radio on medium volume. (Their musical corn patch is miles from their nearest neighbors.)

Before the Davises discovered that raccoons and skunks don't like disco (or rock or Bluegrass), the animals seemed to know just when the corn was ready and would raid the patch, totally destroying the crop.

Sow wildflower seeds now for garden color next spring

Late summer and early fall are the ideal times to sow seeds of annual and perennial wildflowers for profuse bloom next spring. Most native wildflowers will bloom with no soil preparation, but you'll get best results by cultivating lightly and mulching with ½ to 1 inch of ground fir bark or peat moss after seeding. Most native wildflowers prefer hot, dry, sunny locations.

DON NORMARK



Top priority *this month: the harvest. This full basket is from Lainie Jackson's garden in Denver*

You may want to mix wildflower seeds with native grass seeds, such as buffalo grass or blue grama. Use 1 ounce of wildflower seed for each 500 square feet of soil. For grasses, seed 8 ounces for each 500 square feet. To get even distribution, mix the seed with sand or sawdust as you sow. See page 72 of the September 1979 *Sunset* for more hints on starting a wildflower meadow.

MOUNTAIN GARDE

☐ **Divide perennials.** Divide to increase your supply of columbine, delphinium, German iris, Oriental poppies, peonies, and Shasta daisies.

☐ **Harvest fruits and vegetables.** Check the garden daily for produce at its peak of flavor: beets, broccoli, bush beans, cauliflower, corn, new potatoes, raspberries, strawberries, summer squash, toma-

If your nursery doesn't offer seeds of wildflowers for high altitudes, write to any of these firms: Clyde Robin, Box 2855, Castro Valley, Calif. 94546; Plants of the Southwest, 1570 Pacheco St., Santa Fe 87501; Rocky Mountain Seed, 1325 15th St., Denver 80217; Applewood Seed Co., 833 Parfet St., Lakewood, Colo. 80215.

Utah gardeners, tune in to a new radio weather report

Have you ever wished you could get the latest weather information for your area whenever you needed it? In Utah now you can.

The National Weather Service has begun operating four VHF-FM transmitters that broadcast complete weather information for the state every 3 to 4 minutes.

Extended outlooks for five days ahead are regularly aired, along with current weather information and special warnings about hail, frost, high winds, or floods. Information is updated every 6 hours, with storm warnings issued as needed.

Weather service signals require a special high-frequency receiver or a radio with a weather band. These are available at many radio stores, ranging in price from about $8 (for a 9-volt, transistor-type radio) to about $85 for a sophisticated multiband model.

The Salt Lake and Roosevelt area stations operate on a frequency of 162.55 mHz; the Cedar City and Logan stations broadcast on 162.40 mHz. Other states have a similar weather reporting service; you can tune them in on one of the above frequencies.

How to harvest a crop of champion tomatoes

Vine ripening is the essential difference between delicious homegrown tomatoes and the bland red globes sold in markets. A perfectly ripe tomato practically falls into your hand when you lift it against the stem.

Here are a few steps you can take to bring your tomatoes to this perfect condition:

Most determinate varieties (plants that reach a certain size, then stop growing) don't need pinching back. However, most indeterminate varieties benefit from a light pruning. This lets more light fall on plants, hastening maturity.

To stimulate pollination, jiggle the flower clusters on a warm, dry day.

Just before tomatoes start to mature, reduce watering to help them ripen faster. To extend the harvest season when fall frosts threaten, cover the plants with a blanket or a sheet of clear plastic at night, as in the photograph above. Remove blanket or plastic before daytime temperatures go too high—or you could risk cooking your plants.

For information on harvesting other crops, see page 152. □

DAVID STUBBS

When fall frost threatens, *clear plastic tied around a wire cage protects tomato plants in the Spokane garden of Dr. and Mrs. Gordon Windle*

CHECK LIST: *Here are the important jobs*

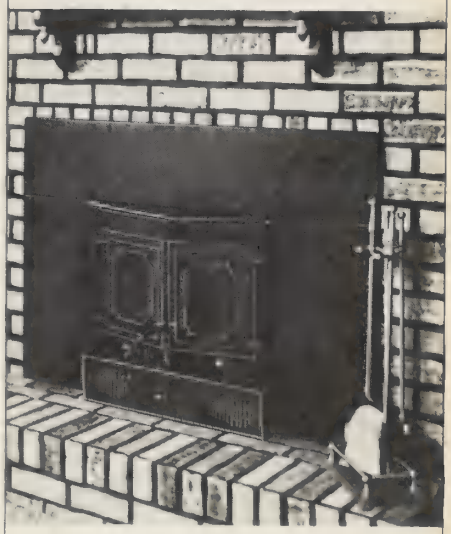
toes, and zucchini. Cut peppermint and hang it in bunches to dry for tea.

☐ **Plant for a fall harvest.** Now's the time to seed beets, carrots, leaf lettuce, parsley, spinach, and radishes for fresh vegetables this fall. In the mildest climates, set out broccoli, cabbage, and cauliflower transplants.

☐ **Prune sucker growth.** Crabapples, birch, hawthorn, maple, Russian olive, and willows may put out some watersprout growth (vertical shoots from branches or trunk) this month. Prune as soon as you see them.

☐ **Tidy up the rock garden.** Remove seed pods from aquilegia, arabis, iberis, and gypsophila to keep plants looking neat. Shear back cornflowers and California poppies to encourage further bloom.

INSERT EFFICIENCY



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S-1

Six honeysuckle vines *cover this 14- by 24-foot lath house addition. Inside, temperatures may be 10° cooler than outside. At right, she's only 6 feet from sidewalk you see above*

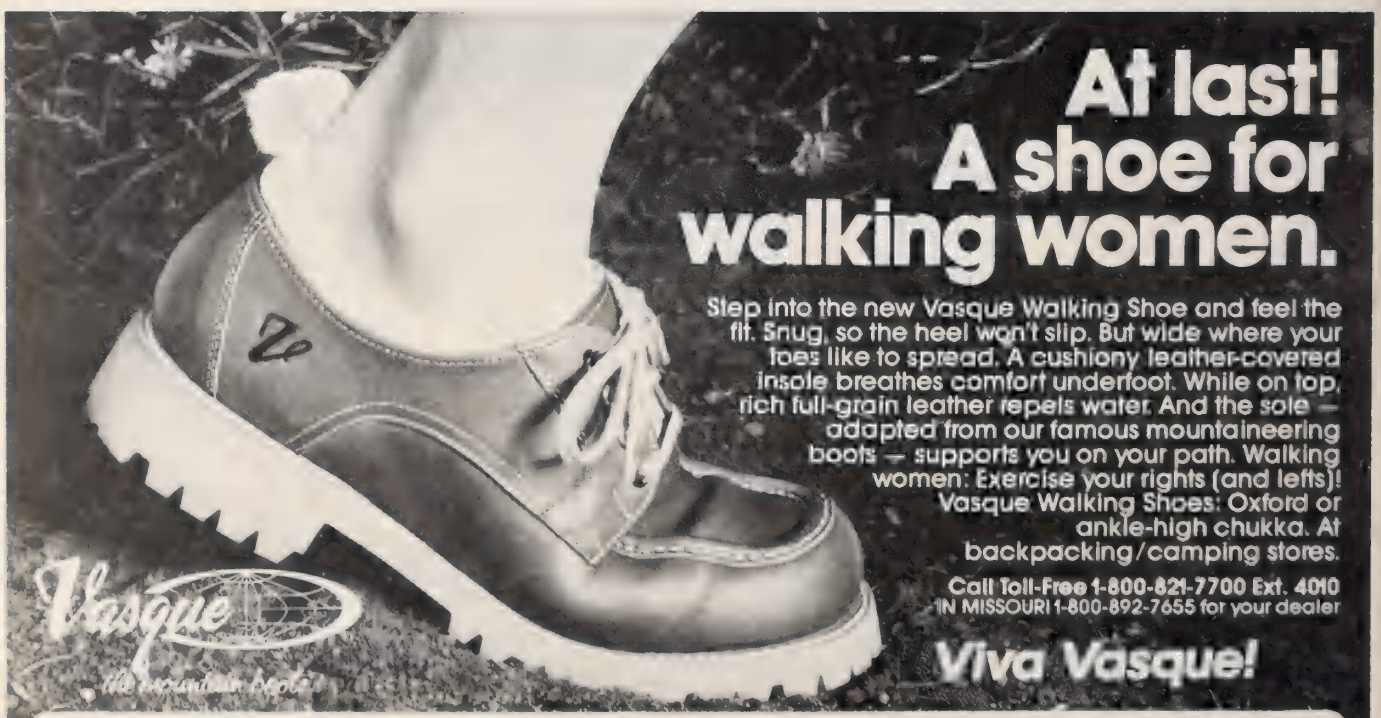
BILL ROS

Quick honeysuckle room . . . age 3

When they bought their 50-year-old Fresno house, Krist and Kathleen Jensen needed something to give them additional privacy (a sliding glass door opened onto the sidewalk) and relief from the sun. Their solution: build a lath "room" and plant it with Japanese honeysuckle (*Lonicera japonica*) outside, a shade garden within.

These photographs, taken three years later, show the results. The 12-foot-long honeysuckle has never been clipped; instead, the Jensens just keep weaving i through the lattice as it grows. Soon i may need shearing once or twice a year

Ferns and other shade plants fill raise beds and hanging baskets inside. There' also a small sunken pool. A busy street i just a few feet away, but the Jensens car sit in shady seclusion. On hot summe evenings, they can hose down the vines open a sliding door, and let cool breeze air-condition the house. □



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BILL ROSS

Droopy plant *gets diagnosis at Master Gardener clinic in Riverside*

Garden questions? Free answering

You can get expert answers to questions about plants, insects, and diseases in six California counties now—where the state's 94 newly trained and certified Master Gardeners are available for free consultation.

Master Gardeners conduct clinics, give demonstrations, and lecture as volunteer horticultural "advisers" of the University of California's Cooperative Extension in Calaveras, El Dorado, Riverside, Sacramento, San Joaquin, and Yolo counties.

California is experimenting with Master Gardeners eight years after Washington state started its successful program of clinics in the state's most populous counties. The program has spread to 20 other states, including Oregon in 1977. The latest is California, where the objective is to supplement the limited number of full-time Cooperative Extension advisers.

In Riverside County, Master Gardeners answer telephones in the Cooperative Extension office; conduct clinics at libraries, shopping centers, and community events; and lecture to organizations. Sacramento County's Master Gardeners concentrate on answering telephone queries, staffing clinics and demonstrations at community gardens and events, and lecturing to garden clubs.

In Calaveras, El Dorado, San Joaquin, and Yolo counties, programs are just getting started with small numbers of volunteers who were trained this spring.

Master Gardener appearances are announced in leaflets and posters and often in local newspapers and on radio stations. You can call a participating Cooperative Extension office for a schedule or to find out when you can talk to a Master Gardener on the telephone. (In the telephone directory, usually under county name, look for Cooperative Extension, Agricultural Extension, Farm Adviser, or University of California Cooperative Extension.)

Other counties in California are considering whether to start Master Gardener programs. To encourage this movement, write to the extension office in your county and send a copy to James Grieshop, Cooperative Extension, University of California, Davis, Calif. 95616. □

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PPG: a Concern for the Future

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Hard to find but worth it. Seeds go in now for 1981 summer color

Delicately marked flowers *on slender stems look fragile, but alstroemeria is long-lived in bouquets and in the garden*

STEVE W. MARLE

Alstroemeria plants aren't easy to get but a search is well worth the effort. Their thickly clustered blooms will provide bouquets or garden color June through midsummer. Colors include a range through coral, pink, and gold, to cream—often whiskered or blotched in contrasting shades.

Once plants are established, they'll come back year after year with little effort on your part. They also self-sow; seedlings come up all over the garden.

Seeds are more readily available than plants, and not difficult to grow. Seeds started now should bloom next year.

Sow seeds ¼ to ½ inch deep in their permanent location or in containers of a lightweight potting mix; keep moist and in partial shade. Protect shoots from snails and slugs.

When seedlings have several leaves, transplant to larger pots or space them about a foot apart in the ground. The seedlings are easily broken; hold them by leaves rather than stems, and submerge them (with soil clump) in water to disentangle roots.

Plant in partial shade in well-drained soil conditioned with compost or ground bark. Water regularly, and fertilize lightly a few times between first spring growth and bloom time. Foliage dries shortly after bloom; then you can cut plants back to the ground. After that, roots require minimal moisture, but watering nearby won't harm them.

In moderately cold areas, apply a thick mulch for winter protection. In very cold areas, plant in pots and move to a protected spot in winter.

Mail-order seed sources include J. L. Hudson, Box 1058, Redwood City, Calif. 94064 (catalog 50 cents); Park Seed Co., Box 31, Greenwood, S.C. 29647; and Thompson and Morgan, Box 100, Farmingdale, N.J. 07727. □

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DOUG WILSON

Round side vents *in closet wall bring fresh air to each high-fronted shelf*

Fresh air makes happy vegetables

Given a cool spot with good air circulation, certain garden produce—fruits in particular—will store a long time. And many crops ripen more evenly and have better flavor at cool (but warmer than an average refrigerator) temperatures.

Cold-storage bins, closets, or rooms vented to a basement or outdoors were standard in older houses. Here are two modern versions.

Ted and Carol Corbett converted a pantry closet into the cooler shown above. The solid wood shelves reduce mingling of flavors between crops. To promote air circulation, each shelf has two vents to the outdoors.

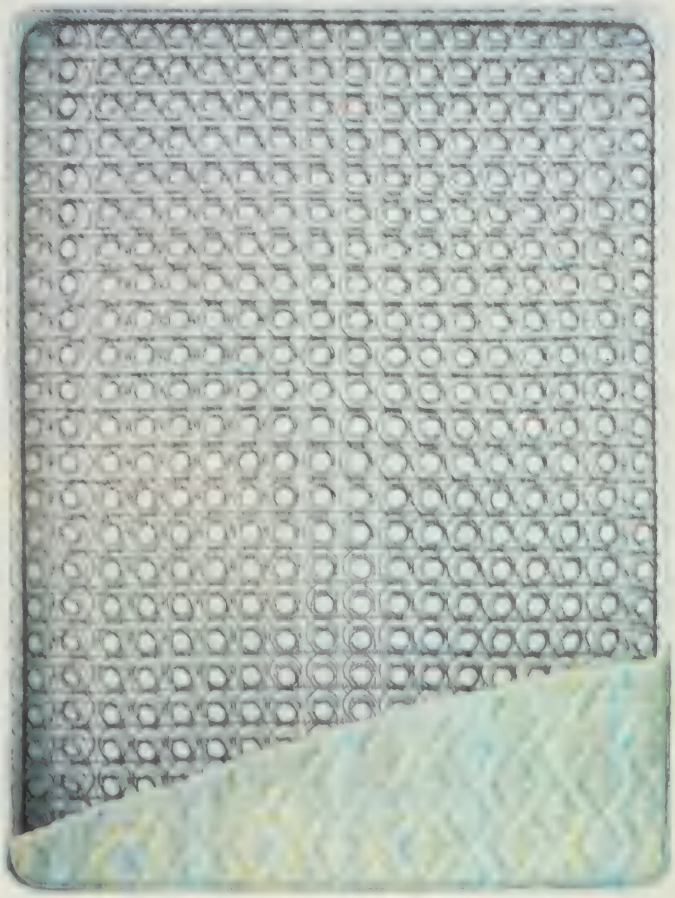
For his own kitchen, architect Paul Sherrill of San Francisco designed the pull-out shelves shown below, which are also vented outside. (Vents could also open to a garage or crawl space.) □

DARROW M. WATT

Slatted shelves *pull out to show contents. Back of cabinet vents outdoors*

BEAUTYREST® VS. THE REST

Beautyrest only by Simmons. Outer covering removed to reveal individually wrapped coils.



Another leading mattress. Outer covering removed to reveal attached springs.

Compare the inside of a Beautyrest mattress to the inside of another leading mattress. They cost about the same but they look different, don't they? That's because Beautyrest *is* different.

The springs in the mattress on the right are locked together. So they move together. They can't adapt to the shape of your body to give you the same kind of firm support you get from head to toe on Beautyrest.

Only Simmons makes those exclusive *individually wrapped coils* you see in Beautyrest. They're free to move up and down separately to give every part of your body firm, comfortable support. In fact, the coils in Beautyrest can give you firm support in places other mattresses may not even reach. Like the small of your back. And the curvy part of your body between your shoulder and hip. Beautyrest fits every part of your body so comfortably that you'll think we made it just for you.

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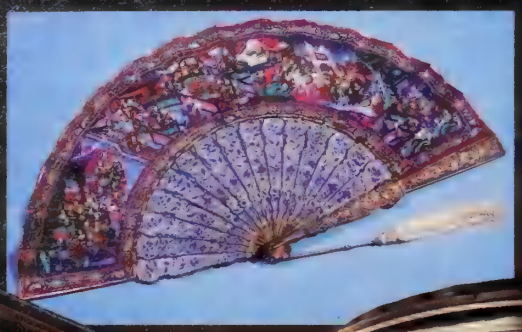

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NORTHERN CALIFORNIA

San Francisco. August is the month to apply for entry to the Strybing Arboretum docent training beginning on September 3. Telephone the society office at (415) 661-1316.

Walnut Creek. August 9. Annual fuchsia plant sale and blossom show by the Diablo branch, American Fuchsia Society. Place: patio adjacent to Fidelity Savings, 1910 Tice Valley Blvd. (in the Rossmoor Shopping Center). Hours: 10 to 4. The show is free.

Hayward. August 9 and 10. Pacific Southwest Dahlia Conference show. Place: Southland Shopping Center, off Nimitz Freeway (State Highway 17) at W. Winton Ave. Hours: 9:30 to 5:30 Saturday; noon to 5 Sunday. Free.

Saratoga. August 10. Open house at Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 10 to 4. For information, telephone the gardens at (408) 867-0307.

Palo Alto. August 16. Sale of tall and median iris rhizomes ($1 each) by the West Bay Iris Society. Place: Stanford Shopping Center. Hours: 10 to 4.

San Jose. August 16. Daruma Festival presented by the West Valley JACL and the JACL Senior Club. In addition to the demonstrations of ikebana, bonsai, and mochitsuki (traditional rice pounding), booths will sell foods and handmade crafts, and folk dancers will entertain—all done by local Japanese-Americans. Place: parking lot of Saratoga Lanes, Prospect Rd. and Saratoga Ave. Hours: 10 to 7. The festival is free.

San Leandro. August 16 and 17. Annual show presented by the San Leandro Dahlia Society. Place: Bayfair Shopping Center, E. 14th St. and 155th Ave. Hours: 9:30 to 5:30 Saturday; noon to 5 Sunday. Free.

Eureka. August 17. Annual fuchsia show and plant sale presented by the Eureka branch, American Fuchsia Society. Place: Carson Memorial Building, Harris and J streets. Hours: 10 to 5. Free.

Sacramento. August 23 and 24. Show by the Sacramento Begonia Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

San Francisco. August 29, 30, and 31. Annual San Francisco County Fair and Flower Show. Place: Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way. Hours: 10 to 6 daily. Plant auction Sunday at 2 P.M. Admission: $2; seniors, $1.50; children under 12, free.

COLORADO

Denver. August 5. Denver Botanic Gardens field trip to Michigan Creek to see some uncommon plants and bog plants such as *Montia* and gentian. Meet at 7 A.M. at the gardens, 909 York St., or at 9 A.M. in Jefferson, Colo., at the north jog of U.S. Highway 285. For necessary reservations, telephone the gardens at (303) 575-2547.

Denver. August 7. Landscape design discussion presented by the Denver Botanic Gardens. Meet at 8 A.M. at Observatory Park, E. Warren Ave. and S. Milwaukee St. For necessary reservations, telephone the gardens.

Denver. Shows in John C. Mitchell Hall at the Denver Botanic Gardens, 1005 York St. *August 9 and 10:* Colorado Gladiolus Society. Hours: 1 to 4:45 Saturday; 9 to 4 Sunday. *August 17:* Colorado Mycological Society mushroom fair. Hours: 11 to 4:45. *August 23 and 24:* Denver Dahlia Society. Hours: 1 to 4:30 Saturday; 10 to 4:30 Sunday. For further information, call the gardens.

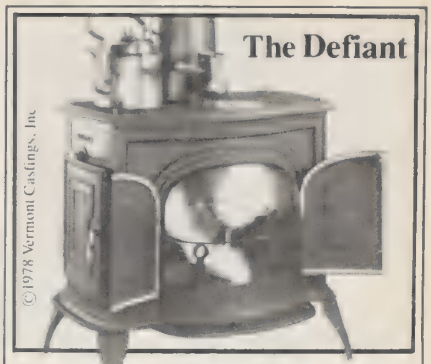
Colorado Springs. August 16. Field trip to an alpine area offered by the Horticultural Art Society. Hours: 9:30 to 11:30 A.M. Free. For required reservations and further information, telephone (303) 635-1909 or 475-9267. □

To announce your garden events

Would you like us to publicize a garden show or other special event to be held by your garden club?

If so, simply send us the following information: time of the event (both date and hours); location (building, street address, city); types of exhibits; admission fee; and any other information that would interest our readers.

Fact sheets should reach us by the 15th of the month—three months before you would like the event mentioned in *Sunset*. Mail all information to Garden Events Editor, *Sunset Magazine*, Menlo Park, Calif. 94025. □



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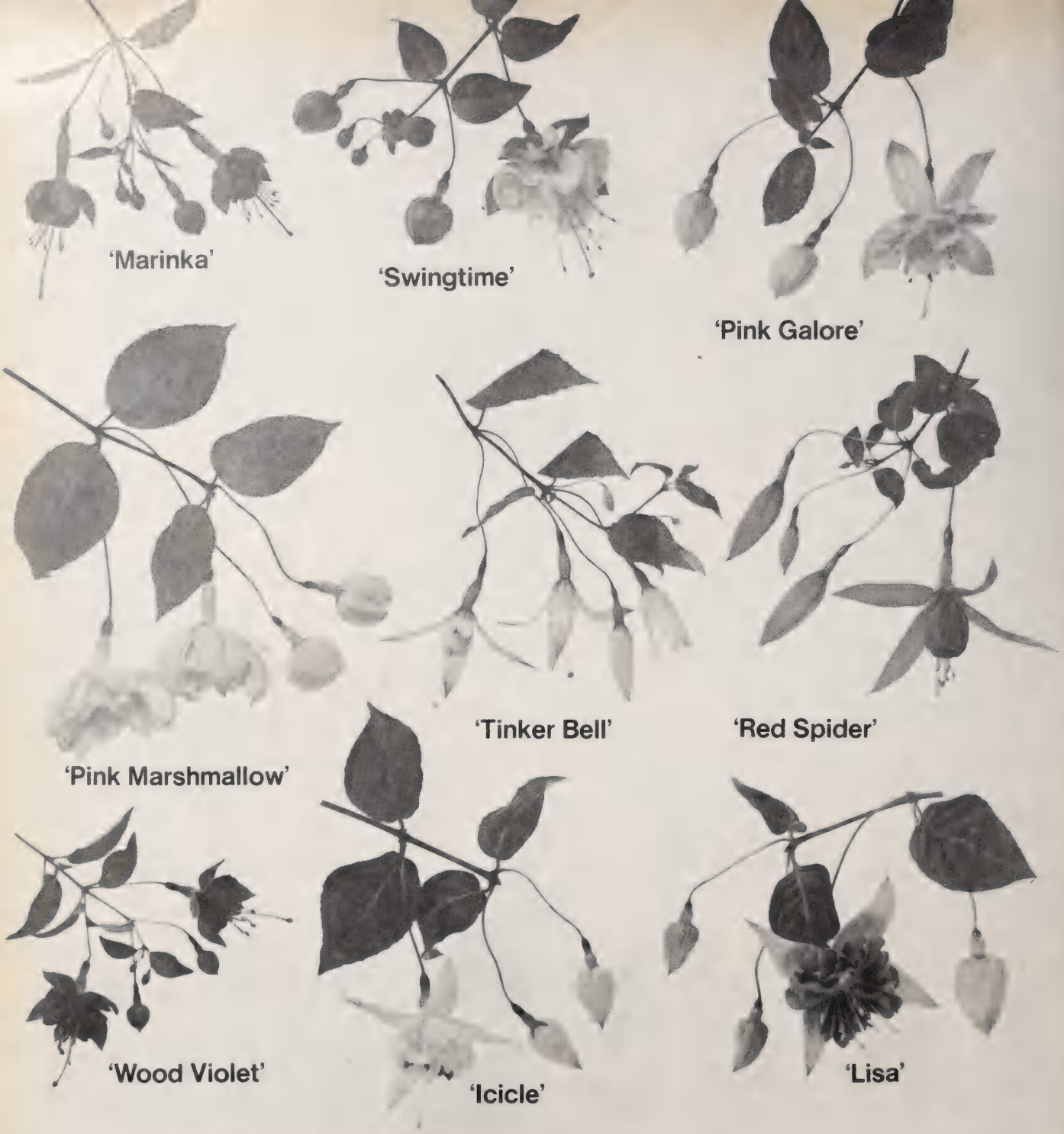

DARROW M. WATT

Pick your favorite: *From dainty compacts like 'Marinka' and 'Wood Violet' to airy singles like 'Tinker Bell' or big poofy doubles such as 'Pink Marshmallow' and 'Lisa'. Colors range from deep red through pink to white—or combinations*

150 knowing fuchsia growers tell us which are best for hanging baskets

See how they grow: *from top to bottom, 'Swingtime' is mostly upright, 'Marinka' arches, then cascades, 'Red Spider' trails*

Some fuchsia varieties grow vigorously upright, others reach to the sides, and some cascade almost straight downward. It's possible to train many kinds to almost any shape, but it's a lot easier to choose one that's naturally inclined to the form you want.

Which fuchsias are best for hanging baskets? We asked 150 Western members of the American Fuchsia Society to name three varieties they would recommend for beginners.

The top ten nominees are described at right; you see nine of them in the photographs here. Three other good trailers are shown on the cover. All are vigorous show plants that can survive a little neglect. And most are naturally cascading varieties that tend to branch with minimal pinching.

Fuchsias with huge, fully double flowers and those with white or pastel pink blooms are almost always heat-sensitive —reliable only near the coast. The kinds most tolerant of inland heat usually have single or small double flowers in red or orange shades.

Near the coast and in the Northwest, you'll see fuchsias loaded with bloom this month. Inland, however, flowering tapers off during summer, and nursery plants are hard to find.

For prize-winning baskets

Supply ample moisture. During hot weather, water every day—twice, if it's hot and windy. Inland, it's best to mist foliage once or twice a day also; but take care not to overwater soil, or roots may rot. If a potted plant gets quite dry, submerge the whole pot in water; or plug the drain hole with a cork just long enough for water to soak in. Then remove the cork and let excess drain out.

Fertilize every one to two weeks from spring through about mid-September (through October in Southern California). Start with a half-strength solution of high-nitrogen fertilizer for plant growth. During the bloom season, switch to fertilizer that's also high in phosphorus and potash for best flower color.

Provide shade. If a plant performs poorly despite regular food and water, try moving it to a different light exposure. Some fuchsias bloom best with warmth and bright morning sun; others thrive only in cool, dappled shade. Check the distance between leaf nodes to help determine whether your light is right: lank, leggy branches often mean your plant needs more sun. Unnaturally small, leathery leaves and stunted growth suggest that more shade is needed.

Remove the berrylike seed pods to promote more bloom. Suspend planters from a swivel hook and rotate periodically for easier grooming and to keep side growth balanced.

Two summer pests

If whiteflies invade, remember that most sprays kill only adults. For control, spray at least three times at 10-day intervals so you kill nymphs and eggs as they mature.

When weather gets hot, plants also become susceptible to red spider mites, especially if humidity is low. Hose off tops and undersides of leaves periodically for prevention and control. For serious infestations, use kelthane or a systemic. Water soil before treating.

The top 10 trailers

Varieties are listed in order of the number of votes received. In describing blossoms, upper petals are called sepals; lower petals (the skirt) are the corolla.

'Marinka'. A very old variety with medium-size, single blooms in a rich cherry red. Although bicolored flowers are generally more popular, this plant is so profuse, easy, and pleasing in form, it's still the standard by which most baskets are judged. Forms a dense, compact ball with minimal pinching. 'Golden Marinka' has the same flower and habit, but foliage is variegated.

'Swingtime'. Large, fully double blooms with red jackets and white-ruffled petticoats keep this variety popular year after year. Growth tends to be stiff and upright; hang weights on limbs to encourage trailing. 'Hula Girl' has an almost identical flower, more trailing growth.

'Pink Galore'. One of the best true pinks, with sepals slightly lighter than the bubble-gum pink corolla. Buds are a pretty, puffed lantern shape. Best grown on the north or protected side of the house.

'Pink Marshmallow'. Very large, fully double bloom, pale pink to almost white. It grows into a huge basket. Best in a cool spot. 'Southgate' is a double pink variety more tolerant of inland heat but more upright than either 'Pink Galore' or 'Pink Marshmallow'.

'Cascade'. (Not shown.) A medium-size slender bloom with white sepals flushed rose and an almost fluorescent-rose corolla. Blooms continuously and heavily, and is not fussy about exposure. Somewhat self-branching, but bloom occurs mainly on the tips unless you pinch tip growth frequently to distribute bloom above the container.

'Tinker Bell'. A slender single white flower, flushed and veined with rose and pink. A long-lasting, profuse bloomer.

'Red Spider'. Fairly long, slender single blooms with deep red coats and rose-purple skirts. Quickly forms a basket that tolerates heat or fairly deep shade, blooms prolifically, and does not fade. Branches droop almost straight down over edges of pot.

'Wood Violet'. Naturally forms a dense, compact ball over the top and upper two-thirds of the container. It starts bloom early and is soon covered with dainty, well-formed, double blooms. Sepals are dark red, with corolla a deep purple-red. Stands a good deal of heat; also tolerates low light.

'Icicle'. Fairly large, white double with a pink tube above the sepals. Very showy. Best in a cool spot.

'Lisa'. A huge, fully double bloom with pink sepals and a lavender corolla. Best in cool, filtered shade. □

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HARVEST GUIDE: Vegetable picking timing and storing guidance

To get the best flavor and freshness in homegrown vegetables, you must know when to harvest. While some crops will retain quality on the plant for some time, others must be picked promptly—both for peak ripeness and to maintain further production. Here's a harvest guide for annual vegetables that mature in many Western gardens this month. But no matter when they ripen in your garden, the picking principles remain the same.

Beans. Harvest them when they're just starting to bulge the sides of the pod. Green (snap) beans should snap when you break them, and pods shouldn't be stringy; pick every three to five days. Harvest limas when beans are plump and green (not white). Freeze or can. Pick dry beans after pods have yellowed but before they begin to shatter; when they're thoroughly dry, store in tightly closed containers.

Beets. When roots are 1 to 3 inches thick—but before they get woody—they're ready to use. Pick thinned greens and roots any time for salads. Dig, remove leaves, and store in damp sand or a root cellar before stems elongate for bloom or before ground freezes.

Broccoli. Cut large, firm, green flower heads with 5 or 6 inches of stem before flowers begin to open. Many more crops with heads that mature when as little as 1 inch across will often follow. Freeze, can, or give away the excess—it won't hold on the plant.

Brussels sprouts. Harvest the large, lowest sprouts first as they become solid. Break off lower leaves as they begin to yellow or as sprouts start to get crowded. Freeze or can what you can't use promptly.

Cabbage. Harvest when heads are firm. To delay splitting, twist the mature head about two-thirds around to break and loosen any of the roots. This will slow the plant's uptake of water, which causes splitting. Can cabbage or store it fresh in a moist, dark place just above 32°.

Carrots. Eat thinned carrots anytime. Harvest the main crop of medium-size varieties when carrots are ¾ to 1½ inches across. If you don't pull them at maturity, they can become woody. Can or store in a root cellar. Store apart from apples and pears, which give off a gas that makes carrots bitter.

Cauliflower. As curds (the white part that you eat) reach silver dollar-size, tie leaves over them (except 'Purple Head', which doesn't need blanching). Pick just before the curd separates into flowers. Cut beneath the top set of leaves.

Corn. As silk tassels begin to wither and turn brown, feel for plump kernels through the husk. As a final test, peel back the husk and pierce a kernel with your thumbnail. If juice is clear, let the corn mature a few days longer. If it's milky, pick for freezing or eating fresh. If liquid is creamy or pasty, it's acceptable for canning but too starchy for fresh eating. For unsurpassed flavor, cook and eat corn right after picking.

Cucumbers. Harvest time depends on intended use. For sweet pickles, pick when 2 or 3 inches long; for dills, pick when 5 to 6 inches long; for slicing fresh, pick when 6 to 8 inches long. Armenian and Japanese varieties keep their quality up to 20 inches long. Gather lemon cukes before diameter reaches 3 inches. Cut with ¼-inch stems. To slow production, leave old cukes on the vine.

Eggplant. Fruit is at its best when it's larger than a duck egg (or about hot dog-size for a Japanese eggplant) and glossy, dark purple. Pick with about ½ inch of stem before glossy skin starts to dull. (Japanese eggplants can be dried as described in the May 1980 *Sunset*.)

Garlic. When tops start to yellow, stop watering. In rainy climates, you may need to knock them over to start the drying process. After three weeks, dig up and dry them on newspapers in a shaded place. Trim off tops and roots, store in a root cellar apart from other crops, or braid some to hang up.

Herbs. These are best harvested when the first flowers are about to open. Pick branches of small-leafed kinds and hang them in a warm, dry place with good ventilation. Pick leaves of large-leafed kinds and dry them one layer deep on a screen, also in a warm, dry, well-ventilated place. Store in sealed containers; crush with a mortar and pestle just before use.

Honeydew melons. Pick when skin turns cream color and blossom end softens.

Leeks. They're ready after they reach 1 inch or more in diameter; leave in the ground until you're ready to eat them.

Lettuce. Pick leaf lettuce anytime from seedling (thinning) size on. Harvest the

eads soon after they develop firm enters. Bibb types are best after loose eads form.

Muskmelon (cantaloupe). Stop watering fter most melons reach mature size. They're ready when netting on the skin is prominent; melons should separate from he vine with just a slight tug.

Onions. Harvest as you would garlic.

Parsnips. Once roots are large enough to ise, harvest as needed. Store in the ground (but use before spring resprouting) or in a root cellar.

Peas. Pick during the cool part of the lay after peas have started to bulge the sides of the pod. For a milder flavor, pick Chinese snow peas while pods are full-size but nearly flat. All peas are most tender, succulent, and sweet when on the small side. Harvest every three days for eating fresh, canning, or freezing.

Peppers. Harvest peppers with ½ inch of stem anytime after they're big enough to eat. Green bell peppers are at their sweetest after they've turned red; store in the refrigerator. Hot peppers are best after they reach full size and turn red, yellow, or green, depending upon variety. Eat fresh or string up peppers and air dry them as you would herbs.

Potatoes. Gently dig old potatoes with a spading fork anytime after tops have died back. Air dry in the shade two days, then store in a root cellar or inside a barrel packed with hardwood sawdust in a place where temperatures don't dip much below 30°.

Radishes. Pick when big enough to use but before they become woody.

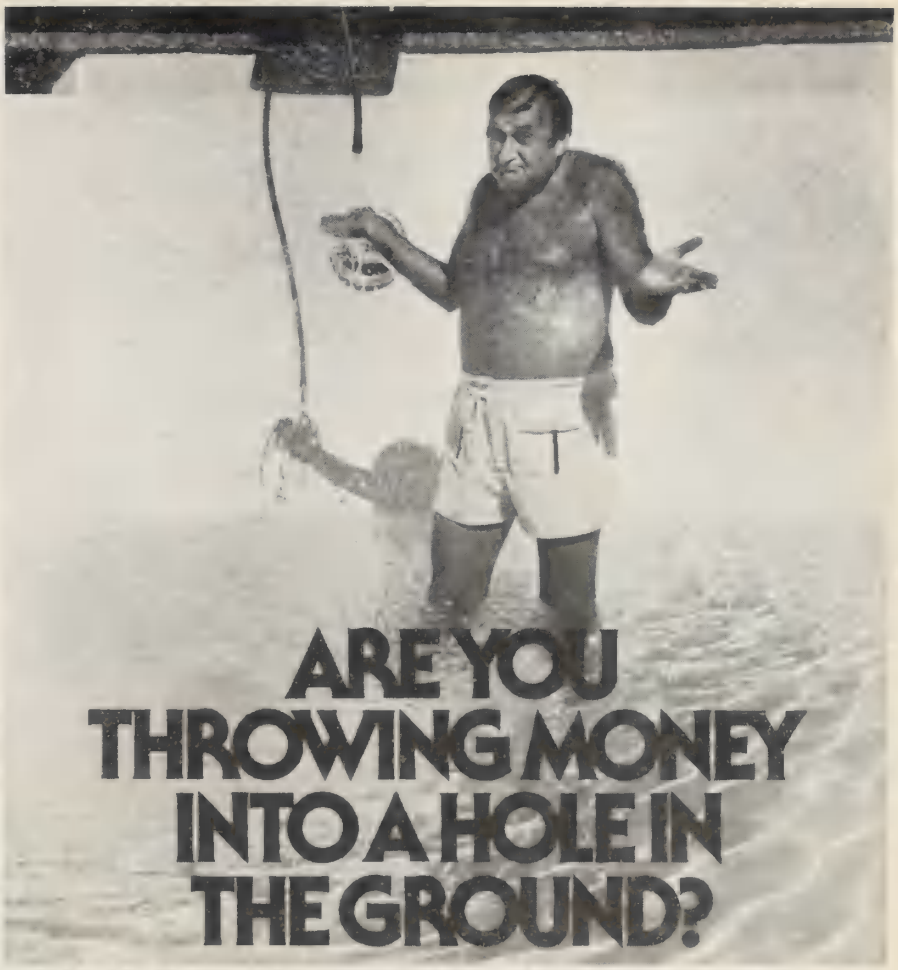
Summer squash. Cut off with 1 inch of stem attached while small and tender, before skin hardens and flesh becomes fibrous. It's almost impossible to harvest them too small.

Swiss chard. Eat thinnings anytime. Pick leaves as soon as they are ready to use, but before the plant goes to seed. If you leave crown intact as you harvest, leaves will continue to sprout.

Tomatoes. Gather them after they turn red but while they're still firm. Don't leave any stem on the fruit. When frost threatens, pick all green tomatoes and let them ripen in a warm spot indoors, out of direct sun. Can or purée and freeze. Stored in a dry place between 55° and 70°, they'll keep up to six weeks.

Watermelons. Cut melons with 2 inches of stem after adjacent vine tendril withers and white skin on bottom of melons turns light yellow. Thumping a mature melon should produce a hollow sound.

Winter squash, pumpkins. Cut with 1 inch of stem after vine dries up. Pumpkins are ready when gold. Air dry, then store in a cool, dry room. □



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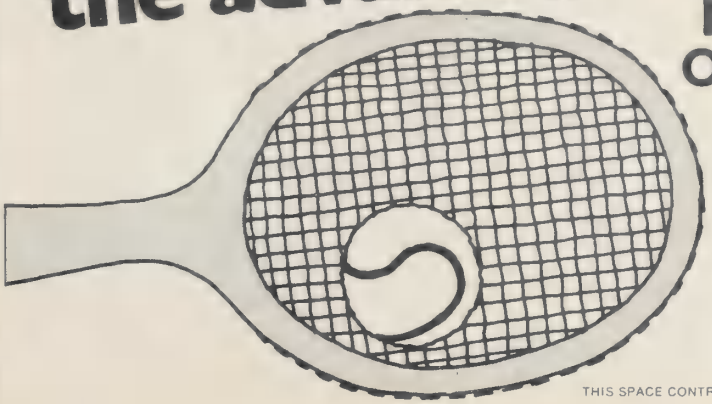

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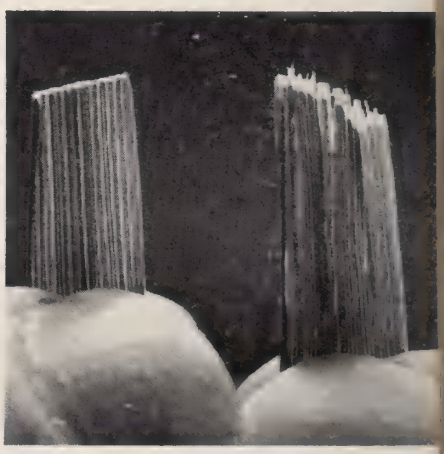
How to sharpen your reel lawn mower

Sharp blades on your reel-type law mower save you work by cutting gras quickly and cleanly. They are also goo for the lawn; dull blades bruise the enc of individual grass stems, which the dry out quickly and make the top c your lawn look like straw.

If it's been a few years since your ree



1. *Examine some grass from your lawn closely. If you use a reel mower and the grass ends look like the one at right, your mower needs sharpening. Sharp mowers cut grass cleanly*

3. *With gloved hands, spin the mower blades opposite to their normal direction of rotation. For best results, apply the grinding compound two or three times to the bedknife*

mower has been sharpened, or if there are deep nicks in the blades, it's best to have it sharpened at a shop.

Between shop sharpenings, however, a 10-minute procedure—shown in the photographs below—will help keep your mower blades finely honed.

To sharpen any manual or power reel mower, you need a medium-grit water-base automotive valve-grinding compound (sold at auto supply stores for about $2 a jar), a small brush, sturdy gloves, and a piece of paper to test for sharpness when you're through.

If you're sharpening a power reel mower, disconnect the spark plug wire, put the drive lever in neutral, and tilt the handle toward the ground so that you can reach the bedknife (the piece of steel the blades strike as they cut the grass). You may have to hold the handle to the ground with a weight. If you're sharpening a push-type reel mower, just flip the handle 180° from its operating position. □

DAVID STUBBS

2. *Mix grinding compound with water to make a thin paste. Turn over the mower to reach bedknife. Paint the compound onto the bedknife with a small brush like a toothbrush*

4. *Test for sharpness (after hosing compound from bedknife and blades) by inserting a piece of paper between bedknife and the blade; a sharp mower will cut it cleanly*

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Undulating border *of dichondra lawn repeats curves of distant hills. Railroad-tie sections support mounded soil at far end*

Close-in garden and distant hills

Meeting a transition challenge

From this house or its deck, you look across a gently sculptured dichondra lawn and through a tracery of tree trunks and branches to a view of distant hills. It's a fairly typical hillside building site, but here the transition from close-in garden to distant hills is beautifully executed.

A major part of its success lies in the way the shrubs and trees have been carefully pruned so you can see through them to what's beyond. But equally important is the subtle shaping of the dichondra lawn to create an undulating surface with an irregular edge. A more usual treatment would have been to define the edge more abruptly, with plants, wall, fence, or header.

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To fill in *steepest area for lawn, soil was added behind courses of broken concrete*

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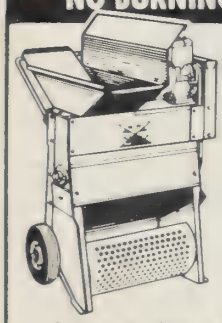

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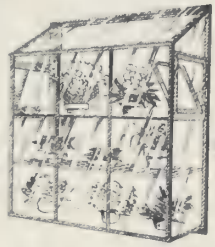

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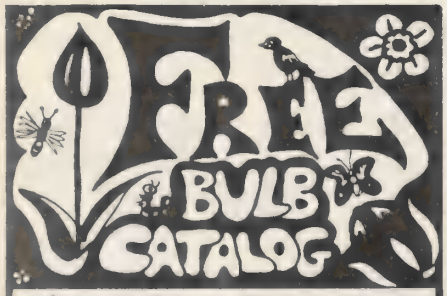

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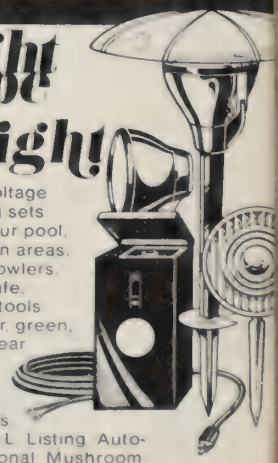

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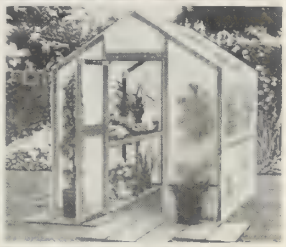

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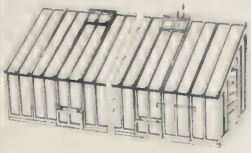

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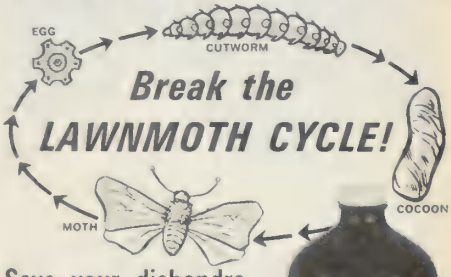

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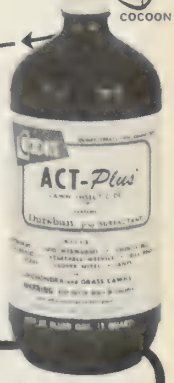

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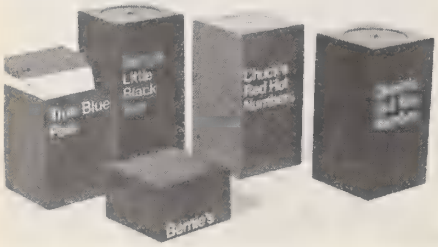

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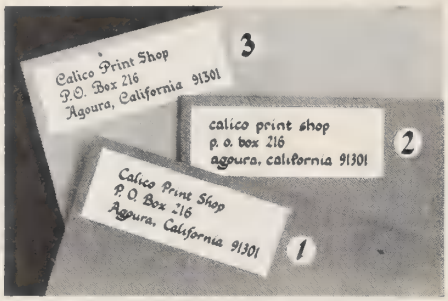

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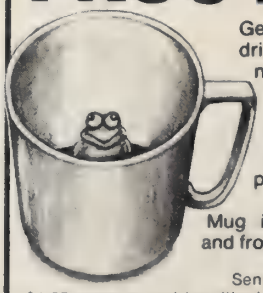

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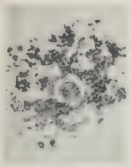

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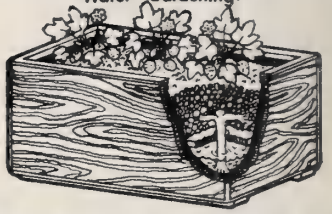

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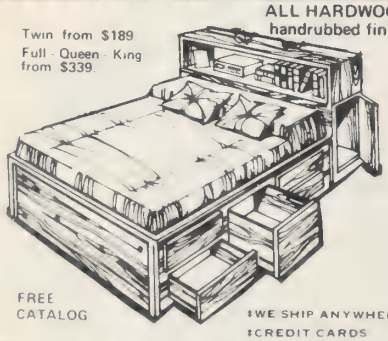

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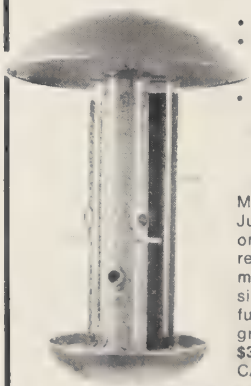

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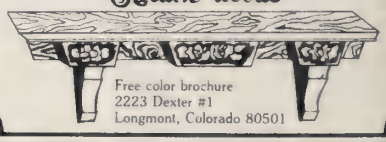

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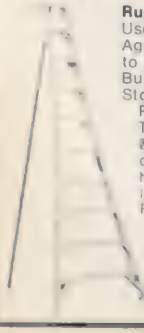

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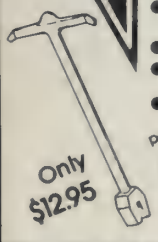

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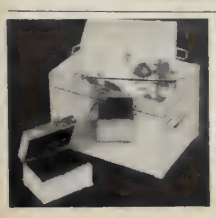

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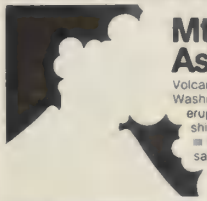

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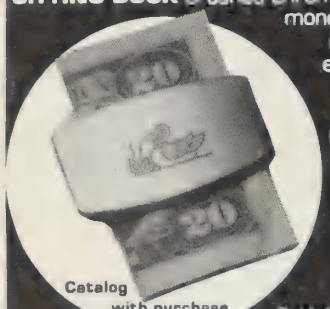

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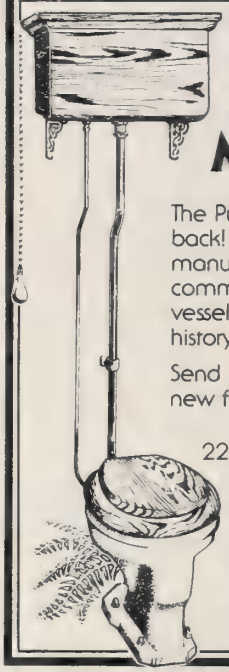

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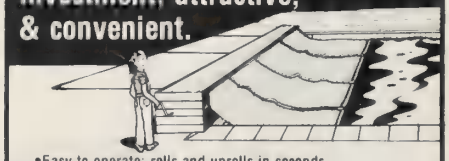

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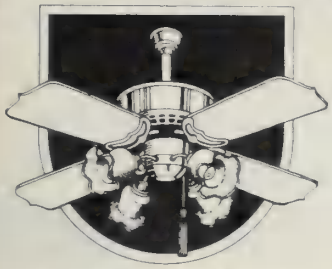

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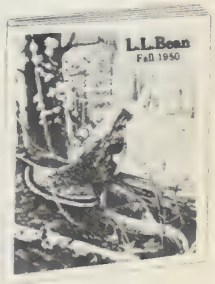

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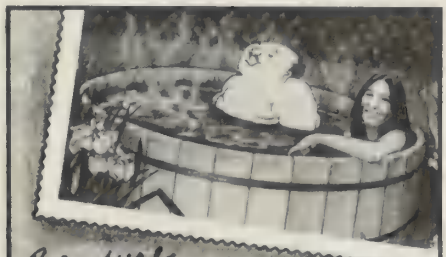

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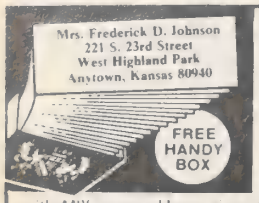

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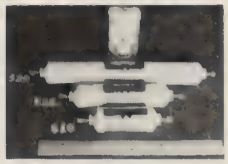

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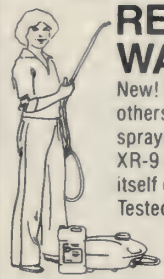

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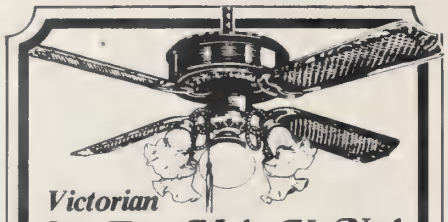

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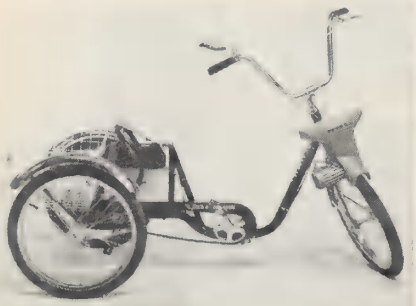

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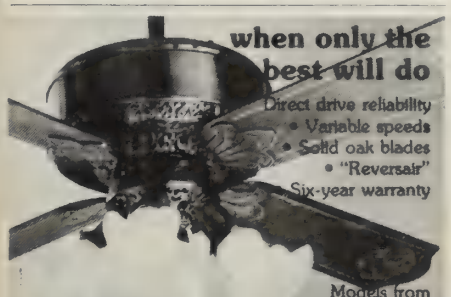

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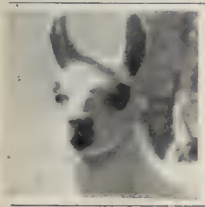

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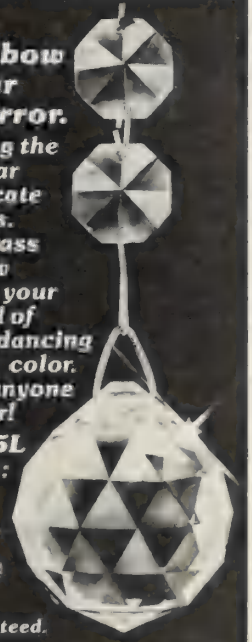

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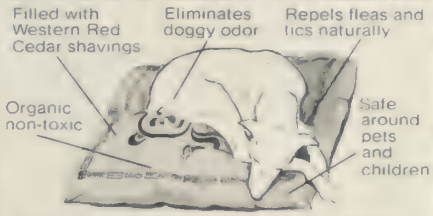

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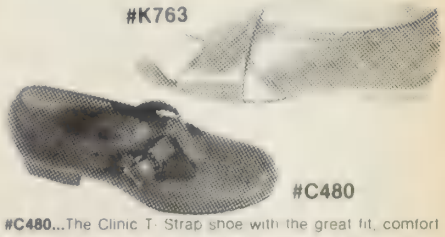

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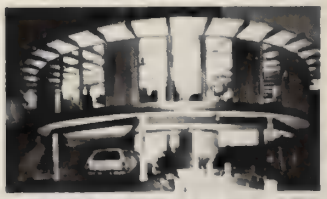

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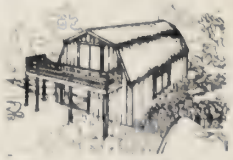

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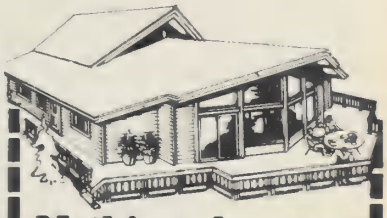

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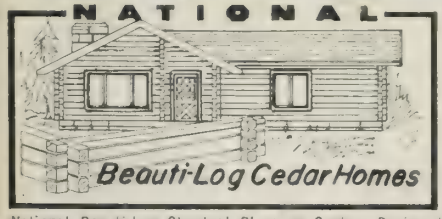

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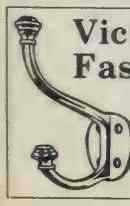

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April 17, 1974, *in the Netherlands. Ruth Lane, guest of the Netherlands National Tourist Office, has just baptized the new orange tulip 'Sunset'. Each spring since then, plantings of this tulip have bloomed in Sunset's garden*

Ruth Bell Lane

1895-1980

I first met Mrs. Lane and her husband Larry 30 years ago this summer. We journeyed together from San Francisco south to the Lanes' Quail Hollow Ranch in Santa Cruz County. My wife Alice and I were guests of Ruth and Larry along with their sons Bill and Mel for a few days while we all got acquainted.

Their big ranch kitchen overflowed with both food and hospitality. Ruth was warm heart in charge. Before dinner the first day she sent Alice and me out to pick peas, and back in the house to shell them. Fresh-from-the-garden vegetables were basic to her dinner plans.

It's now 51 years since the Lanes bought *Sunset*. In all these years Ruth was always in the wings, a trained eye on *Sunset*. Much of the time she was not only in the wings but on stage. Her equipment included a Drake University home economics degree and Phi Beta Kappa membership.

In the early years Ruth was available to help editors Lou Richardson and Genevieve Callahan organize the magazine's food department. Along the way she lent her hand to many needed tasks from recipe testing to text editing.

During World War II Ruth filled the managing editor's post, working closely with editor Walter Doty. In these years, with staff short and war strains everywhere, putting each issue to bed was an uneasy exercise. With her wits and energy, Ruth undoubtedly thrived on it. So did the magazine—as a look at issues of the 1940s makes clear.

In the postwar years Ruth presided first at Quail Hollow, then at the family home in Portola Valley, as management was progressively turned over to Bill and Mel. Married in the mid-1950s, they and *Sunset* gained from Jean and Joan new capabilities and enthusiasms.

The Lane gift for hospitality and welcome got an extraordinary lift when *Sunset* moved from a slim office building on Sacramento Street in San Francisco to its present spacious garden headquarters in Menlo Park. Indoor-outdoor luncheons for friends and business guests now became possible, and *Sunset* began to build a new reputation. In working out *Sunset's* entertainment innovations, Ruth was an advisor, an idea contributor, a coach and counselor, and as necessary, a perceptive critic.

Even in recent years, Ruth enjoyed visits with staff members, and her quick wit and humor delighted them in turn. As one editor put it to me, "Ruth was an experience. I got a great kick just knowing her."

Speaking for editors past and present, for hundreds of other members of the Lane staffs, and for countless friends and supporters, I'd like to end this statement with a few words on *Sunset's* family nature which meant so much to Ruth Lane. The Lane family itself is one thing, but we also speak of the *Sunset* family.

The magazine is staff written, the books and films are staff enterprises. The people who work here are bound together to carry on a tradition of quality. It seems to me, as one member, that this family has proven to be hardworking, productive, good fun, loyal, ongoing.

On this page we pay tribute to a specially valued member of the *Sunset* family whom all other members will miss and fondly remember.

Proctor Mellquist

Proctor Mellquist, Editor

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The Guacamole Ring

- 2 envelopes Knox Unflavored Gelatine
- 1 cup water
- 2 Tablespoons lemon juice
- 1 teaspoon salt
- ½ teaspoon garlic powder
- ½ teaspoon hot pepper sauce
- 4 medium California avocados, peeled, seeded, mashed
- ¼ cup finely chopped onion

In small saucepan, sprinkle Knox Unflavored Gelatine over cold water; let stand 1 minute. Stir over low heat until gelatine is completely dissolved, about 5 minutes. Stir in lemon juice, salt, garlic powder and hot pepper sauce. In large bowl, using wire whip or rotary beater, combine gelatine mixture with avocados; stir in onion. Pour into 5-cup ring mold or individual molds; chill until firm. Serve as an appetizer salad or as a spread for crackers. Makes about 5 cups.